

3.0 Ir1 Integration and Test Results

3.1 DCE Infrastructure Thread Test

3.1.1 System Inspections (TC017.001)

3.1.1.1 Test Summary

The objective of the Systems inspections test was to verify the various level 4 and 3 hardware requirements allocated to Ir1 through inspection of one or more of the following:

- ï Vendor Documentation
- ï Product Specifications
- ï ECS Procurement Documentation
- ï Inspection of physical hardware components in the EDF during their configuration

3.1.1.2 Deviations (if applicable)

None.

3.1.1.3 Test Results

Systems Inspections (TC017.001)

Note: All test cases that are marked SITE ONLY were building inspections performed at the four DAAC sites by Robert Burns and Roger Nelson of the Ir1 Installation Team under direction from the Ir1 I+T Team (EDC, LARC, GSFC, MSFC).

Table 3.1.1.3 Systems Inspections (Page 1 of 10)

Req. No.	Verification Steps	Location	Verified by:	Date
C-HRD-11115	Examine the vendor documentation to make sure that the Unix operating system for the EMS processor is POSIX IEEE 1003.1 compliant.	EDF	DH	12/19/95
C-HRD-11300	Examine the documentation of the EMS data storage to verify it can run on operating systems from several POSIX compliant vendors.	EDF	DH	12/19/95
C-HRD-12115	Examine the vendor documentation to make sure that the Unix operating system for the LMS processor is POSIX IEEE 1003.1 compliant.	EDF	DH	12/19/95
C-HRD-12300	Examine the documentation of the LMS data storage to verify it can run on operating systems from several POSIX compliant vendors.	EDF	DH	12/19/95
C-HRD-18000	Ensure that the EMS backup system is backing up the software within the time interval guideline. Compare the logs with the time specified in the guidelines.	EDF	DH	12/20/95
C-HRD-18005	Ensure that the LMS backup system is backing up the software within the time interval guideline. Compare the logs with the time specified in the guidelines.	EDF	DH	12/20/95
C-HRD-21115	Examine the vendor documentation to make sure that the Unix operating system for the ECS processor is POSIX IEEE 1003.1 compliant.	EDF	DH	12/19/95
C-HRD-21300	Examine the documentation of the ECS data storage to verify it can run on operating systems from several POSIX compliant vendors.	EDF	DH	12/19/95
C-HRD-23115	Examine the vendor documentation to make sure that the Bulletin Board Server processor is POSIX IEEE 1003.1 compliant.	EDF	DH	12/19/95
C-HRD-23300	Examine the documentation of the Bulletin Board Server data storage to verify it can run on operating systems from several POSIX compliant vendors.	EDF	DH	12/19/95
C-HRD-28000	Ensure that the CSS-DCHCI Enterprise Communications Server backup system is backing up the software within the time interval guideline. Compare the logs with the time specified in the guidelines.	EDF	DH	12/19/95

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Req. No.	Verification Steps	Location	Verified by:	Date
C-HRD-32000	Examine the vendor documentation to make the ISS physical devices and Medium Access protocols are compatible with the following standards: a. IEEE 802.2 (Logical Link Control) b. IEEE 802.3 (MAC for Ethernet) c. IEEE 802.6 (MAC for SMDS) d. ANSI X3T9.5 (MAC for FDDI)	EDF	DH	12/19/95
C-HRD-32010	Examine the documentation for the ISS devices and protocols to verify that it states that the SNMP can monitor them. Bring up a single device to determine if SNMP can monitor that device. Repeat this for several different devices and protocols.	EDF	DH	11/16/95
C-HRD-41000	Ensure that the EDF Enterprise Monitoring Server is configured with a.) two fixed disks, b.) one tape drive, c.) one CD-Rom drive, d.) storage cross-strapped with the Enterprise Communications Server.	EDF	DH* A and C verified B and D Rel. A req. per EDS	11/16/95
C-HRD-41005	Ensure that the EDF Enterprise Communications Server is configured with a.) two fixed disks, b.) one tape drive, c.) one CD-Rom drive, d.) storage cross-strapped with the Enterprise Monitoring Server.	EDF	DH* A and C verified B and D Rel. A req. per EDS	11/16/95
C-HRD-41010	Ensure that the Bulletin Board Server is equipped with a.) tape drive b.) CD-ROM drive.	EDF	DH* A is verified B is Rel A. req per EDS	11/16/95

Table 3.1.1.3 Systems Inspections (Page 3 of 10)

Req. No.	Verification Steps	Location	Verified by:	Date
C-HRD-41015	Ensure that 2 data storage units supporting RAID level 5 are provided (one for Enterprise Monitoring/Enterprise Communications and the other for the Bulletin Board Server).	EDF	DH* Rel A. req per EDS	11/16/95
C-HRD-41020	Ensure that there are 4 management workstations which can perform any EMC function.	EDF	DH	11/15/95
C-HRD-41025	Ensure that the EDF has a system printer.	EDF	DH	11/15/95
C-HRD-41500	Ensure that one EDF LAN exists to provide infrastructure for the EDF in the Ir-1 time frame.	EDF	DH	11/16/95
C-HRD-42000	Ensure that the GSFC LMS is configured with two fixed disks, one tape drive, and one CD-Rom Drive.	EDF	DH*tape drive not until rel. A	12/19/95
C-HRD-44000	Ensure that the MSFC LSM is configured with two fixed disks, one tape drive, and one CD-Rom drive.	EDF	DH*tape drive not until rel. A	12/19/95
C-HRD-45000	Ensure that the LsRC LSM is configured with two fixed disks, one tape drive, and one CD-Rom drive.	EDF	DH*tape drive not until rel. A	12/19/95
C-HRD-46000	Ensure that the EDC LSM is configured with two fixed disks, one tape drive, and one CD-Rom drive.	EDF	DH*tape drive not until rel. A	12/19/95
C-MSS-10410	Examine the MSS documentation to determine if the MSS interacts with the CSS subsystems to exchange the data items specified in the ECS internal ICDs.	EDF	DH	11/16/95
C-MSS-70520	Verify that the MSS EMC Management Application Service has office automation support tools. Examine the documentation to verify that these tools provide instructions for recovery from detected security events.	EDF	DH	11/16/95
S-DPS-42720	Examine the documentation to ensure that the AITTL CI allows the operation staff to have teleconferences with the Science Software Developer staff and the ECS staff.	EDF	DH	11/16/95

Table 3.1.1.3 Systems Inspections (Page 4 of 10)

Req. No.	Verification Steps	Location	Verified by:	Date
S-DPS-60710	Examine the ECS Facilities Plan, and verify the electrical power requirements for the SPRHW CI equipment. Ensure that the equipment falls within those guidelines. If necessary, consult with a building engineer to assist with verification.	SITE ONLY	RB	12/18/95
S-DPS-60740	Examine the ECS Facilities Plan and verify the air conditioning requirements. Ensure that there is a permanent thermometer in the computer room. Ensure that the temperature remains within the range specified in the ECS facilities plan.	SITE ONLY	RB	12/18/95
S-DPS-60750	Determine the grounding requirements in the ECS Facilities Plan. Consult with maintenance staff to determine if these grounding requirements are being met.	SITE ONLY	RB	12/18/95
S-DPS-60760	Determine the fire alarm requirements in the ECS Facilities Plan. Consult with either maintenance or building engineers to determine if the fire alarm requirements are being met.	SITE ONLY	RB	12/18/95
S-DPS-60780	Determine the physical interface requirements between the SPRHW CI equipment and the facility in the ECS Facilities Plan. Consult with the building engineers determine if the physical interface requirements are being met.	SITE ONLY	RB	12/18/95
S-DPS-60790	Determine the requirement for the footprint size and the physical layout of the SPHRW equipment. Consult with appropriate personnel to determine if the footprint size and the physical layout meet the requirements specified in the ECS Facilities Plan.	SITE ONLY	RB	12/18/95
S-DPS-60910	Examine the SPRHW CI documentation to verify that it supports testing throughout the development cycle.	EDF	DH	11/16/95
S-DPS-60930	Determine which test tools are listed in the SDPS test tool matrix. Ensure that the SPRHW CI provide those tools.	EDF	DH	11/16/95
S-DPS-61171	Verify that the Science processing hardware system has a dynamic analyzer that will be able to check source code for memory leaks. Make sure that CaseVision is installed	EDF	DH	11/15/95

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Req. No.	Verification Steps	Location	Verified by:	Date
S-DPS-61172	<p>Verify that the Science processing hardware platform is POSIX.2 compliant. Ensure that at least one of the following languages are installed:</p> <ul style="list-style-type: none"> a. C b. C++ c. FORTRAN 77 d. FORTRAN 90 <p>Examine the processing documentation to verify that the language(s) used are POSIX.2 compliant.</p>	EDF	DH	11/16/95
S-DPS-61175	<p>Verify that each development environment is POSIX.2 compliant. Determine what are the ECS supported languages for SPRHW. Verify that each environment has an interactive source level debugger for ECS supported languages.</p>	EDF	DH	11/16/95
S-DPS-61177	Ensure that the SPRHW supporting the AI&T with CERES S/W has an ADA development environment installed. Check either the log in the computer area or look at the latest version of the EDFmat.doc	EDF	DH	11/15/95
S-DPS-70070	Examine the documentation to verify that the AITHW CI has the capability for status monitoring.	EDF	DH	11/16/95
S-DPS-70110	Ensure that the operating system for each UNIX platform conforms to the POSIX.2 standard.	EDF	DH	11/16/95
S-DPS-70120	Verify that the following utilities exist on the AITHW platform: perl, emacs, gzip, tar, imake, prof, gprof, nm. Enter which <utility> to verify.	EDF	DH	11/15/95
S-DPS-70130	Ensure that these user portability utilities exist: man and vi . To check, just enter either man or vi .	EDF	DH	11/15/95
S-DPS-70140	Ensure that these software development utilities exist: make.	EDF	DH	11/15/95
S-DPS-70150	Ensure that these C-Language Development Utilities exist: lex and yacc.	EDF	DH	11/15/95
S-DPS-70160	Ensure that the following Unix shells are installed: C, Bourne and Korn. To verify, look at the vendor documentation. For C type which csh For Bourne type which sh For Korn shell type which ksh	EDF	DH	11/15/95
S-DPS-70180	Verify that the Algorithm integration and test hardware system has a dynamic analyzer that will be able to check source code for memory leaks.	EDF	DH	11/16/95

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Req. No.	Verification Steps	Location	Verified by:	Date
S-DPS-70183	Ensure that the AITHW CI POSIX.2 compliant platform contains on-line or printed documentation for each installed tool.	EDF	DH	11/16/95
S-DPS-70190	Ensure that the AITHW platform has at least one of these four languages installed: C, C++, FORTRAN 77, or FORTRAN 90. Check either the logs by the computer or the latest EDFmat.doc	EDF	DH	11/16/95
S-DPS-70220	Examine the AITHW documentation to verify that the POSIX.2 environment should be able to compile and link POSIX compliant source code.	EDF	DH	11/16/95
S-DPS-70240	Examine the vendor documentation to verify that the AITHW platform has a source level debugger for each language available.	EDF	DH	11/16/95
S-DPS-70250	Examine the documentation to verify that the AITHW development environment has a screen capture utility. Snapshot is available on the Sun's To check type which snapshot	EDF	DH	11/15/95
S-DPS-70260	Ensure that the AITHW CI includes a set of profiling tools which can measure the average and maximum: a. CPU time b. Memory usage c. Disk space usage of a process	EDF	DH	11/16/95
S-DPS-70310	Make sure that the AITHW platform can interface with other platforms through the LAN. Remotely log into the other platforms from the AITHW machine	EDF	DH	11/15/95
S-DPS-70710	Examine the ECS Facilities Plan to determine the electrical requirements for the AITHW. Determine if the AITHW meet these requirements (consult with the building engineer to help determine this if necessary).	SITE ONLY	RB	12/18/95
S-DPS-70740	Examine the ECS Facilities Plan to determine the air conditioning requirements for the AITHW. Ensure that there is a thermostat in the computer area. Determine if the AITHW meet these requirements.	SITE ONLY	RB	12/18/95
S-DPS-70750	Examine the ECS Facilities Plan to determine the grounding requirements for the AITHW. Determine if the AITHW meet these requirements (consult with the building engineer to help determine this if necessary).	SITE ONLY	RB	12/18/95

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Req. No.	Verification Steps	Location	Verified by:	Date
S-DPS-70760	Examine the ECS Facilities Plan to determine the fire alarm requirements for the AITHW. Determine if the AITHW meet these requirements (consult with the building engineer to help determine this if necessary).	SITE ONLY	RB	12/18/95
S-DPS-70780	Examine the ECS Facilities Plan to determine the physical interface requirements for the AITHW. Determine if the AITHW meet these requirements (consult with the building engineer or hardware maintenance to help determine this if necessary).	SITE ONLY	RB	12/18/95
S-DPS-70790	Examine the ECS Facilities Plan to determine the footprint size and physical layout requirements for the AITHW. Determine if the AITHW meet these requirements (consult with the building engineer or hardware maintenance to help determine this if necessary).	SITE ONLY	RB	12/18/95
S-INS-60430	Make sure that the ICLHW CI can interface with one or more LANs. Remotely log into the other platforms from the ICLHW machine	EDF	DH	11/16/95
S-INS-60510	Examine the ECS Facilities Plan to determine the electrical requirements for the ICLHW. Determine if the ICLHW meet these requirements (consult with the building engineer to help determine this if necessary).	SITE ONLY	RB	12/18/95
S-INS-60540	Examine the ECS Facilities Plan to determine the air conditioning requirements for the ICLHW. Ensure that there is a thermostat in the computer area. Determine if the ICLHW meet these requirements.	SITE ONLY	RB	12/18/95
S-INS-60550	Examine the ECS Facilities Plan to determine the grounding requirements for the ICLHW. Determine if the ICLHW meet these requirements (consult with the building engineer to help determine this if necessary).	SITE ONLY	RB	12/18/95
S-INS-60560	Examine the ECS Facilities Plan to determine the fire alarm requirements for the ICLHW. Determine if the ICLHW meet these requirements (consult with the building engineer to help determine this if necessary).	SITE ONLY	RB	12/18/95
S-INS-60580	Examine the ECS Facilities Plan to determine the physical interface requirements for the ICLHW. Determine if the ICLHW meet these requirements (consult with the building engineer or hardware maintenance to help determine this if necessary).	SITE ONLY	RB	12/18/95

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Req. No.	Verification Steps	Location	Verified by:	Date
S-INS-60590	Examine the ECS Facilities Plan to determine the footprint size and physical layout requirements for the ICLHW. Determine if the ICLHW meet these requirements (consult with the building engineer or hardware maintenance to help determine this if necessary).	SITE ONLY	RB	12/18/95
S-INS-60650	Examine the documentation to verify that the ICLHW CI has the capability for status monitoring.	EDF	DH	12/20/95
S-INS-60810	Ensure that the operating system for each UNIX platform conforms to the POSIX.2 standard.	EDF	DH	11/16/95
S-INS-60820	Verify that the following utilities exist on the ICLHW platform: perl, emacs, gzip, tar, imake, prof, gprof, nm. Enter which <utility> to see if it exists. Note: gprof is not on the ICLHW machine but this requirement is met because CaseVision (which does all of the capabilities of gprof) is installed on the machine	EDF	DH	12/13/95
S-INS-60830	Ensure that these user portability utilities exist: man and vi . To check, just enter either man or vi .	EDF	DH	11/15/95
S-INS-60840	Ensure that these software development utilities exist: make.	EDF	DH	11/15/95
S-INS-60850	Ensure that these C-Language Development Utilities exist: lex and yacc.	EDF	DH	11/15/95
S-INS-60860	Ensure that the following Unix shells are installed: C, Bourne and Korn. To verify, look at the vendor documentation. For C type which csh For Bourne type which sh For Korn type which ksh	EDF	DH	11/15/95
S-INS-60870	Ensure that the ICLHW CI POSIX.2 compliant platform contains on-line or printed documentation for each installed tool.	EDF	DH	11/16/95
S-INS-60880	Ensure that the ICLHW platform has at least one of these four languages installed: C, C++, FORTRAN 77, or FORTRAN 90. To verify check either the logs or the latest EDFmat.doc	EDF	DH	11/15/95
S-INS-60890	The POSIX.2 environment should be able to compile and link POSIX compliant source code. Acquire some code that is POSIX.2 compliant and run it.	EDF	DH	11/16/95
S-INS-60895	Examine the vendor documentation to verify that the ICLHW platform has a source-level debugger for each language available. Make sure that CASEVISION is installed	EDF	DH	11/16/95
EOSD0510#lr1	Examine the documentation for the ECS to determine whether it can be tested during all phases of development.	EDF	DH	11/16/95

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Req. No.	Verification Steps	Location	Verified by:	Date
EOSD0730#Ir1	Examine the documentation for the ECS to determine whether each ECS element is capable of verifying the fidelity of the ECS element interface to external entities at any time during the lifetime of the ECS.	EDF	DH	12/20/95
EOSD5020#Ir1	Acquire a list of the site architectures that will be supporting ECS. Examine the vendor specs and documentation of all the hardware, software and interfaces used, and check off whether each piece will work on all of the different site architectures.	EDF	DH	12/18/95
ESN-1350#Ir1	Examine the documentation to verify that the ESN LAN's physical devices are compatible with ISO and ANSI standards.	EDF	DH	12/20/95
SCF-0001#Ir1	Verify that the SCF is following the Data Production Software and SCF Standards and Guidelines (GSFC 423-16-01), focusing on Operating Systems, communications, email protocol, and windowing protocol requirements.	EDF	DH	12/20/95
SCF-0010#Ir1	Ensure that the SCF interface consists of an ESDIS approved computing platform. Verify that a C compiler is present. Verify that a FORTRAN compiler is present.	EDF	DH	12/19/95
SCF-0030#Ir1	Verify that the hard drive is large enough to hold all the data that will reside on the system (1 Gig, 2 Gig, or larger). Verify that the system has enough memory (at least 32 meg). Verify that the system is at least 32 bit architecture (64 bit may be necessary depending on the software requirements). Verify that the video card and monitor are adequate for any operation. Determine the maximum performance for any network equipment and software, whether it includes LANs, modems, T1 lines, Mosiac, any internet software, etc. and whether it is enough to be able to access any outside entity.	EDF	DH	12/18/95
SMC-2505#Ir1	Examine the LSM operating procedures to verify that there is a plan to update the system-wide database of all hardware, system software, and scientific software. Determine how often this is done.	EDF	DH	12/20/95

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Req. No.	Verification Steps	Location	Verified by:	Date
TRMM1230#Ir1	Examine the CERES instrument team documentation to verify the definition of ancillary, correlative and flight dynamics data needed for their processing. Ensure that this info is either on-line (BBS, EDHS site, or other) or hardcopies are available. This info is in the ICD between ECS + SCF	EDF	DH	12/11/95
TRMM1240#Ir1	Examine the CERES instrument team documentation to verify the definition of quick-look algorithms and operations concept needed for their processing. Ensure that this info is either on-line (BBS, EDHS site, or other) or hardcopies are available. This info is in the ICD between ECS + SCF	EDF	DH	12/11/95
TRMM2220#Ir1	Examine the LIS instrument team documentation to verify the definition of ancillary, correlative and flight dynamics data needed for their processing. Ensure that this info is either on-line (BBS, EDHS site, or other) or hardcopies are available. This info is in the Mission statement for TRMM release for the ECS Project	EDF	DH	12/20/95
TRMM2230#Ir1	Examine the LIS instrument team documentation to verify the definition of quick-look algorithms and operations concept needed for their processing. Ensure that this info is either on-line (BBS, EDHS site, or other) or hardcopies are available. This info is in the Mission statement for TRMM release for the ECS Project	EDF	DH	12/20/95
PGS-1025#IR1	Verify that the PGS provide a Science Processing Library that contains routines for A. Image processing routines B. Data Visualization routines C. Graphics routines Make sure that IDL and IMSL are installed. Note: IMSL is installed but the right version may not be ready yet.	EDF	DH	12/20/95

TEST LOG

Thread / Build Name:	Ir1 Infrastructure Thread	
Test Case Name:	System Inspections	
Test Case ID:	TC1.1 (TC017.001)	
Test Location:	x EDF	DAAC:
S/W Config./ Version:	Solaris 2.4 Irix 6.1 HP 9.05	
H/W Config./ Host Names:	Every Ir1 machine dps1sgiedf, mss2sunedf, mss1hpedf, css1hpedf, dps2ncdedf, dps3sunedf, ins1sgiedf, mss3hpedf, dps4sgiedf	
Test Data:		
Test Tools/ Scripts:		
Test Date:12/20/95	Test Time: 15:00	Tester(s):Darrell Hickman

Witness(es):

Comments: This requirement has 91 requirements which are verified through inspections. This case lasted from September through December as hardware and documentation became available. All requirement were verified except #'s:

S-DPS-60710 S-DPS-60740 S-DPS-60750 S-DPS-60760 S-DPS-60780 S-DPS-60790

S-DPS-70710 S-DPS-70740 S-DPS-70750 S-DPS-70760 S-DPS-70780 S-DPS-70790

S-INS-60510 S-INS-60540 S-INS-60550 S-INS-60560 S-INS-60580 S-INS-60590

The requirements listed above are requirements containing the specifications of the computer areas of each DAAC. Floor plans, fire alarm,

and electricity standards are some of the example of these. All of these are specified in the ECS Facility Plan. These are DAAC only

requirements that have already been verified at each DAAC site by the Ir1 installation team. These will be reflected in the test logs for the

on-site tests.

C-HRD-41000 C-HRD-41005 C-HRD-41010 C-HRD-41015 C-HRD-42000 C-HRD-43000 C-HRD-44000 C-HRD-45000 C-HRD-46000

These requirement were only partially verified. Parts of the requirements are going to be moved in the near future and be mapped to Release A.

NCRs Written: ECSEd01181

NCRs Verified:	ECSSed01181		
NCRs Un-Verified:			
x Pass	Fail	Partial Pass/Fail	
x 1st Run	Formal Run	Retest	Release

3.1.1.4 Recommendations and Conclusions

All requirements were fully verified as of 2/6/96.

3.1.2 User Authentication (TC003.001)

3.1.2.1 Test Summary

Formal test run successfully on sun OS.5 environment. Sniffer analyzer was used to monitor the network traffic. See contents under test result for more detail.

This test case demonstrates a successful DCE logon capability and the ability to interface with the authentication database.

3.1.2.2 Deviations (if applicable)

Test Inputs

A valid DCE ID and a valid password.

Test Steps

Perform a DCE log on and log off using three valid ID/Password combinations.

Repeat for guest account.

Gather the information using a network analyzer, verify that the DCE password is not readable over the network.

Test Outputs

Screen outputs showing the success or failure of the DCE logon/logoff attempts. Network monitor output showing the data transmitted between the client and server.

Success Criteria

Three successful logon and logoff attempts with each event occurring in under 15 seconds. No in the clear password data on the network.

Assumptions and Constraints:

None.

3.1.2.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	User Authentication
Test Case ID:	TC 1.2 (TC003.001)
Test Location:	EDF DAAC:

S/W Config./ Version:	See /Ir1_IT/T1/TC1_2/TC1_2_env on dps3sunedf.		
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_2/TC1_2_env on dps3sunedf.		
Test Data:	N/A		
Test Tools/ Scripts:	Logic Analyzer/Sniffer		
Test Date: 9/16/95	Test Time: PM	Tester(s):	Mike Molinet
Witness(es): N/A			
Comments: Test ran smoothly. DCE password not transmitted openly when directly logged into DCE client (trevino) or server (apalmer). Password is visible if performing DCE login remotely (telnet or rlogin) - see tc1_2rlg.csv file on the analyzer/sniffer 3.5" diskette for data in Excel format. Operationally, users will be directly logged in. See vi test log (/Ir1_IT/T1/TC1_2/TC1_2_log on dps3sunedf) and the Excel format data in tc1_2nrm.csv on the analyzer/sniffer 3.5" diskette.			

NCRs Written:	0		
NCRs Verified:	N/A		
N C R s U n - Verified:	N/A		
Pass	Fail	Partial Pass/Fail	
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_2_env_lab

Date/Time: Mon Sep 18 17:17:47 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

HP-UX apalmer A.09.05 A 9000/755 2011913188 two-user license

LIST OF ACTIVE PROCESSES:

```
mmolinet 21468 21460 0 17:17:47 ttyp3 0:00 /bin/sh env3
mmolinet 20753 20740 0 13:43:31 ? 0:00 xload -name vueload -nolabel -iconic -xrm vueload*primaryCol
mmolinet 20745 20740 0 13:43:27 ? 0:02 vuewm
mmolinet 21469 21468 3 17:17:47 ttyp3 0:00 ps -edf
mmolinet 21443 20745 0 17:15:15 ? 0:00 hpterm
mmolinet 20751 20740 0 13:43:31 ? 0:00 xclock -name DigitalClock -digital -update 1
mmolinet 21262 21261 0 16:41:06 ttys5 0:00 -csh
mmolinet 20749 1 0 13:43:27 ttyp2 0:00 /usr/softbench/bin/softmsgsrv -bootfile /usr/softbench/confi
mmolinet 21444 21443 0 17:15:15 ttyp3 0:00 csh
mmolinet 20740 20477 0 13:43:26 ? 0:00 /usr/vue/bin/vuesession
mmolinet 21460 21444 1 17:17:30 ttyp3 0:00 /bin/sh env3
```

```
&d@&a0y0CJRSys: apalmer&a54CMon Sep 18 17:17:47 1995BLoad averages: 4.11, 4.13, 4.10B75 processes: 70 sleeping, 5 waitingBCpu states:  
17.5% user, 0.0% nice, 22.6% system, 59.9% idle, 0.0% unk5, 0.0% Bunk6, 0.0% unk7, 0.0% unk8BMemory: 30804K (23552K) real, 48988K (42572K)  
virtual, 172204K free Screen # 1/5BBTTY PID USERNAME PRI NI SIZE RES STATE TIME %WCPU %CPU COMMANDDB? 7016  
jbrewste228 20 1408K 1036K wait 3474:34 24.79 24.75 cdscpB? 20157 jbrewste228 20 1028K 852K wait 80:21 24.56 24.52 cdscpB? 9815  
jbrewste228 20 1040K 924K wait 2086:32 24.43 24.39 cdscpB? 19845 jbrewste227 20 1032K 872K wait 95:46 24.12 24.08 cdscpB?&a7C159 root  
154 20 360K 412K sleep 2:53 0.18 0.18 /usr/etc/aBp3 21460 mmolinet158 20 236K 100K sleep 0:00 0.31 0.18 /bin/sh enB? 1012 root 154  
20 4420K 1784K sleep 12:14 0.15 0.15 /opt/dceloB?&a7C984 root 154 20 5768K 2088K sleep 17:58 0.12 0.12 /opt/dceloB? 1042 root 154  
20 3964K 1508K sleep 5:17 0.08 0.08 /opt/dceloB? 1059 daemon 154 20 5256K 2824K sleep 3:29 0.04 0.04 /usr/bin/XB?&a8C77 root 127  
20 44K 112K sleep 1:59 0.02 0.02 /etc/synceB? 20745 mmolinet154 20 5104K 1056K sleep 0:02 0.01 0.01 vuewmBp3 21444 mmolinet168  
20 240K 180K sleep 0:00 0.01 0.01 cshB? 21443 mmolinet154 20 4596K 468K sleep 0:00 0.00 0.00 hptermB?&a7C117 root 154 20 180K  
68K sleep 0:01 0.00 0.00 /etc/portm
```

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

COLUMNS=80

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum

DISPLAY=apalmer:0.0

EDITOR=vi

HOME=/home/mmolinet

HOST=apalmer

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LINES=24

LOGNAME=mmolinet

MAIL=/usr/mail/mmolinet
MANPATH=/usr/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local/bin:/usr/local/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
PWD=/tmp_mnt/home/mmolinet
SHELL=/bin/csh
TERM=hpterm
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
USER=mmolinet
VISUAL=vi
WINDOWID=29360145

SHELL VARIABLES AND THEIR VALUES:

COLUMNS=80

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim

DISPLAY=apalmer:0.0

EDITOR=vi

HOME=/home/mmolinet

HOST=apalmer

IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LINES=24

LOGNAME=mmolinet

MAIL=/usr/mail/mmolinet

MAILCHECK=600

MANPATH=/usr/man:/usr/local/man

MERCURY_ELMHOST=sim.hitc.com

M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner

M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner

PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consim:/var:/etc:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin

PWD=/tmp_mnt/home/mmolinet

SHELL=/bin/csh

TERM=hpterm
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
USER=mmolinet
VISUAL=vi
WINDOWID=29360145
platform=HP-UX
selection=1
testid=TC1_2_env_lab

Test Case 1.2 (TC003.001) 9/16/95

/disk1/Ir1_IT/T1/TC1_2/TC1_2_log

trevino{mmolinet}4: pwd

/disk1

trevino{mmolinet}5: dce_login mmolinet

Enter Password:

trevino{mmolinet}90: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/mmolinet

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 00000834-e935-21ce-9100-0800094e7c5b mmolinet

Group: 00000080-e933-21ce-9101-0800094e7c5b IR1

Local Groups:

00000080-e933-21ce-9101-0800094e7c5b IR1

0000007a-e924-21ce-9601-0800094e7c5b subsys/dce/cds-admin

Identity Info Expires: 95/09/19:20:28:00

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_45429900

Default principal: mmolinet@ecscell.hitc.com

Server: krbtgt@ecscell.hitc.com@ecscell.hitc.com

valid 95/09/19:10:28:00 to 95/09/19:20:28:00

Server: dce-rgy@ecscell.hitc.com

valid 95/09/19:10:28:41 to 95/09/19:20:28:00

Server: dce-ptgt@ecscell.hitc.com

valid 95/09/19:10:28:57 to 95/09/19:12:28:57

Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.
hitc.com

valid 95/09/19:10:28:57 to 95/09/19:12:28:57

Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com

valid 95/09/19:10:28:57 to 95/09/19:12:28:57

trevino{mmolinet}91: kdestroy

trevino{mmolinet}92: klist

No DCE identity available: No currently established network identity for which context exists (dce / sec)

Kerberos Ticket Information:

klist: No credentials cache file found (dce / krb) while setting cache flags (ticket cache /opt/dcelocal/var/security/creds/dcecred_45429900)

trevino{mmolinet}93: dce_login guest

Enter Password:

trevino{mmolinet}90: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/guest

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 000007df-eec3-21ce-9400-0800094e7c5b guest

Group: 0000007f-e933-21ce-9101-0800094e7c5b EPUSER

Local Groups:

0000007f-e933-21ce-9101-0800094e7c5b EPUSER

Identity Info Expires: 95/09/19:20:36:54

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_456f8a00

Default principal: guest@ecscell.hitc.com

Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/19:10:36:54 to 95/09/19:20:36:54

Server: dce-rgy@ecscell.hitc.com

valid 95/09/19:10:36:58 to 95/09/19:20:36:54

Server: dce-ptgt@ecscell.hitc.com

valid 95/09/19:10:37:19 to 95/09/19:12:37:19

Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.

hitc.com

valid 95/09/19:10:37:19 to 95/09/19:12:37:19

Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com

valid 95/09/19:10:37:19 to 95/09/19:12:37:19

trevino{mmolinet}91: kdestroy

trevino{mmolinet}92: klist

No DCE identity available: No currently established network identity for which c

ontext exists (dce / sec)

Kerberos Ticket Information:

klist: No credentials cache file found (dce / krb) while setting cache flags (ti

cket cache /opt/dcelocal/var/security/creds/dcecred_456f8a00)

3.1.2.4 Recommendations and Conclusions

Test should not be run remotely, since DCE is not secure when remotely logged in.

3.1.3 Failed User Authentication (TC003.002)

3.1.3.1 Test Summary

This test case demonstrates the ability to detect an invalid logon (UNIX and DCE). Formal test run successfully on SUN OS.5 environment. Sniffer analyzer was used to monitor the network traffic. See contents under test result for more detail.

3.1.3.2 Deviations (if applicable)

Test Inputs

<u>ID</u>	<u>Password</u>
Valid ID	Invalid Password
Invalid ID	Valid Password
Invalid ID	Invalid Password
Null ID	No Password Prompt
Valid ID	Null Password

Test Steps

Perform logons using the above combinations.

Attempt each logon 3 times. (For test purposes logon termination will be set at 3 failed attempts.)

Using a network analyzer, verify that the DCE password was not transmitted in clear text.

Test Outputs

Screen outputs showing the success or failure of the logon/logoff attempts. General response times of each logon and logoff event. Network monitor output showing the data transmitted between the client and server. Event log data.

Success Criteria

All attempts at logon rejected and event log data that shows each failed logon with the appropriate data such as IDs attempted. Logon process terminated after three unsuccessful attempts. No error messages given that would aid in determining a valid ID password combination. The Data Encryption Standard (DES) for encryption and decryption of data is supported.

Assumptions and Constraints:

Logon termination set at three unsuccessful attempts. If an invalid logon occurs the error message provided will not indicate which input (ID or password) was invalid. For DCE logons when an invalid (unregistered) user id is attempted, you will not be prompted for a password.

3.1.3.3 Test Result

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	Failed User Authentication
Test Case ID:	TC 1.3 (TC003.002)
Test Location:	EDF DAAC:
S/W Config./ Version:	See /Ir1_IT/T1/TC1_3/TC1_3_env on dps3sunedf.
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_3/TC1_3_env on dps3sunedf.
Test Data:	N/A

Test Tools/ Scripts:	Logic Analyzer/Sniffer	
Test Date: 9/18/95	Test Time: 1:00 PM	Tester(s): Mike Molinet
Witness(es): N/A		
Comments: Test ran smoothly. Unix authentication OK. DCE password not transmitted openly when directly logged into DCE client (trevino) or server (apalmer).		
740 frames captured on sniffer/analyizer (tc1_3.enc on 3.5" diskette in Ethernet compressed data format). See vi test log (/Ir1_IT/T1/TC1_3/TC1_3_log on dps3sunedf).		
NCRs Written:	0	

NCRs Verified:	N/A		
N C R s U n - Verified:	N/A		
Pass	Fail	Partial Pass/Fail	
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_3_env

Date/Time: Tue Sep 19 15:20:25 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

SunOS chichi 5.4 Generic_101945-27 sun4m sparc

LIST OF ACTIVE PROCESSES:

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

```
*****
AB_CARDCATALOG=/home/ab/ab_cardcatalog
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim
DISPLAY=:0.0
EDITOR=vi
HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help
HOME=/home/mmolinet
HOST=chichi
HZ=100
KRB5CCNAME=FILE:/opt/dcelocal/var/security/creds/dcecred_071e5500
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/Irunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
```

PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consumsim:/var:/etc:/usr/man:/usr/sh
are/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/S
UNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:
/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atri
a/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.co
m/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin

PWD=/tmp/Ir1_IT

REMOTEDIPLAY=chichi:0.0

SHELL=/bin/csh

TERM=vs100

TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=
\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[
m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:E<k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=^H:
kd=\EOB:ke=\E[?11\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:s
c=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:

TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim

TZ=US/Eastern

USER=mmolinet

VISUAL=vi

WINDOWID=16777229

XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S

XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

cpu=chichi

SHELL VARIABLES AND THEIR VALUES:

AB_CARDCATALOG=/home/ab/ab_cardcatalog
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim
DISPLAY=:0.0
EDITOR=vi
HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help
HOME=/home/mmolinet
HOST=chichi
HZ=100
IFS=

KRB5CCNAME=FILE:/opt/dcelocal/var/security/creds/dcecred_071e5500
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MAILCHECK=600
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner

NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
OPTIND=1
PATH=.:./home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
PWD=/tmp/Ir1_IT
REMOTEDIPLAY=chichi:0.0
SHELL=/bin/csh
TERM=vs100
TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l\E<:k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=^H:kd=\EOB:ke=\E[?11\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:s=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=US/Eastern
USER=mmolinet
VISUAL=vi
WINDOWID=16777229
XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S

```
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings  
cpu=chichi  
platform=SunOS  
selection=1  
testid=TC1_3_env
```

Test Case 1.3 (TC003.002) 9/18/95
/disk1/Ir1_IT/T1/TC1_3/TC1_3_log

The first half of this test could not be copied
to this test log, as the Unix login window can't
be copied.

DCE login:

Started Network Analyzer to monitor traffic between
apalmer (DCE server) and chichi (DCE client).

```
chichi{mmolinet}63: pwd  
/tmp/Ir1_IT  
chichi{mmolinet}64: dce_login mmolinet  
Enter Password:
```

Sorry.

Password Validation Failure. - Invalid password (dce / sec)

chichi{mmolinet}65: klist

No DCE identity available: No currently established network identity for which context exists (dce / sec)

Kerberos Ticket Information:

klist: No credentials cache file found (dce / krb) while setting cache flags (ticket cache /opt/dcelocal/var/security/creds/dcecrcd_071e5500)

chichi{mmolinet}66: dce_login monkey

Sorry.

User Identification Failure. - Registry object not found (dce / sec)

chichi{mmolinet}67: klist

No DCE identity available: No currently established network identity for which context exists (dce / sec)

Kerberos Ticket Information:

klist: No credentials cache file found (dce / krb) while setting cache flags (ticket cache /opt/dcelocal/var/security/creds/dcecrcd_071e5500)

chichi{mmolinet}68: dce_login

Enter Principal Name:

Sorry.

User Identification Failure. - Registry object not found (dce / sec)

chichi{mmolinet}69: klist

No DCE identity available: No currently established network identity for which context exists (dce / sec)

Kerberos Ticket Information:

```
klist: No credentials cache file found (dce / krb) while setting cache flags (ticket cache  
/opt/dcelocal/var/security/creds/dcecrcd_071e5500)
```

```
chichi{mmolinet}70: dce_login mmolinet
```

Enter Password:

Sorry.

Password Validation Failure. - cannot log in with zero-length password (dce / sec)

```
chichi{mmolinet}71: klist
```

No DCE identity available: No currently established network identity for which context exists (dce / sec)

Kerberos Ticket Information:

```
klist: No credentials cache file found (dce / krb) while setting cache flags (ticket cache  
/opt/dcelocal/var/security/creds/dcecrcd_071e5500)
```

3.1.3.4 Recommendations and Conclusions

Test should not be run remotely, since DCE is not secure when remotely logged in.

3.1.4 User Password Change (TC003.003)

3.1.4.1 Test Summary

This test case demonstrates the ability of a user to change their DCE password. See contents under test result for more detail.

3.1.4.2 Deviations (if applicable)

Test Inputs

A valid DCE ID and password.

A valid DCE password, new password, and repeated new password.

Test Steps

DCE log on.

Change DCE password.

DCE log off.

DCE log on with the new password.

DCE log off.

Attempt DCE log on with old password.

Test Outputs

Screen outputs showing the success or failure, when applicable, of the DCE logon/logoff attempts.

Success Criteria

Successful DCE logon with the changed password. Old password logon fails.

Assumptions and Constraints:

If it is necessary for XRunner to enter the existing and new passwords, the passwords will be visible in the XRunner script. To minimize the risk of intrusion, the password should be stored as a variable in the script, and should be assigned a value just prior to the test. Test case 1.2 must pass prior to attempting this test case.

3.1.4.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)	
Test Case Name:	User Password Change	
Test Case ID:	TC 1.4 (TC003.003)	
<hr/>		
Test Location:	EDF	DAAC:
S/W Config./ Version:	See /Ir1_IT/T1/TC1_4/TC1_4_env on dps3sunedf.	
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_4/TC1_4_env on dps3sunedf.	
Test Data:	N/A	
Test Tools/ Scripts:	N/A	
Test Date: 9/19/95	Test Time: PM	Tester(s): Mike Molinet
Witness(es): N/A		

Comments: Test ran smoothly. See vi test log (/Ir1_IT/T1/TC1_4/TC1_4_log on dps3sunedf).

NCRs Written:	0		
NCRs Verified:	N/A		
N C R s U n - Verified:	N/A		
Pass	Fail	Partial Pass/Fail	
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_4_env

Date/Time: Tue Sep 19 17:01:33 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

SunOS chichi 5.4 Generic_101945-27 sun4m sparc

LIST OF ACTIVE PROCESSES:

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim

DISPLAY=:0.0

EDITOR=vi

HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help
HOME=/home/mmolinet
HOST=chichi
HZ=100
KRB5CCNAME=FILE:/opt/dcelocal/var/security/creds/dcecred_071e5500
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfd/doc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/Irunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
PATH=.:./home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consumsim:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfd/doc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/Irunner/bin:/net/sim.hitc.com/data/tools/QA/Irunner/samples/Irbin
PWD=/tmp/Ir1_IT
REMOTEDIPLAY=chichi:0.0

SHELL=/bin/csh
TERM=vs100
TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:E<;k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=^H:kd=\EOB:ke=\E[?11\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:c=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=US/Eastern
USER=mmolinet
VISUAL=vi
WINDOWID=16777229
XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
cpu=chichi

SHELL VARIABLES AND THEIR VALUES:

AB_CARDATALOG=/home/ab/ab_cardcatalog
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim
DISPLAY=:0.0
EDITOR=vi
HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help

HOME=/home/mmolinet
HOST=chichi
HZ=100
IFS=

KRB5CCNAME=FILE:/opt/dcelocal/var/security/creds/dcecred_071e5500
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MAILCHECK=600
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/Irunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
OPTIND=1
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/sh
are/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/S
UNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:
/usr/local/bin:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atri

a/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
PWD=/tmp/Ir1_IT
REMOTEDIPLAY=chichi:0.0
SHELL=/bin/csh
TERM=vs100
TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l\E<;k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=^H:kd=\EOB:ke=\E[?11\E>;kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:s=c=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=US/Eastern
USER=mmolinet
VISUAL=vi
WINDOWID=16777229
XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
cpu=chichi
platform=SunOS
selection=1
testid=TC1_4_env

/disk1/Ir1_IT/T1/TC1_4/TC1_4_log

chichi{mmolinet}86: pwd

/tmp/Ir1_IT

chichi{mmolinet}87: dce_login mmolinet

Enter Password:

chichi{mmolinet}13: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/mmolinet

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 00000834-e935-21ce-9100-0800094e7c5b mmolinet

Group: 00000080-e933-21ce-9101-0800094e7c5b IR1

Local Groups:

00000080-e933-21ce-9101-0800094e7c5b IR1

0000007a-e924-21ce-9601-0800094e7c5b subsys/dce/cds-admin

Identity Info Expires: 95/09/20:03:09:57

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_0a0f8f00
Default principal: mmolinet@ecscell.hitc.com
Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com
valid 95/09/19:17:09:57 to 95/09/20:03:09:57
Server: dce-rgy@ecscell.hitc.com
valid 95/09/19:17:10:01 to 95/09/20:03:09:57
Server: dce-ptgt@ecscell.hitc.com
valid 95/09/19:17:10:06 to 95/09/19:19:10:06
Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com
valid 95/09/19:17:10:06 to 95/09/19:19:10:06
Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com
valid 95/09/19:17:10:06 to 95/09/19:19:10:06

chichi{mmolinet}16: rgy_edit

Current site is: registry server at /.../ecscell.hitc.com

rgy_edit=> do a

Domain changed to: account

rgy_edit=> v mmolinet

mmolinet [IR1 HAIS]:*:2100:128:Mike Molinet (HAIS):/home/mmolinet:/bin/csh:

rgy_edit=> c -p mmolinet -g IR1 -o HAIS -pw newpass -mp testpass2

rgy_edit=> exit

bye.

chichi{mmolinet}18: kdestroy
chichi{mmolinet}19: exit
chichi{mmolinet}20: chichi{mmolinet}88: dce_login mmolinet

Enter Password:

Sorry.

Password Validation Failure. - Invalid password (dce / sec)

chichi{mmolinet}89: dce_login mmolinet

Enter Password:

chichi{mmolinet}20: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/mmolinet

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 00000834-e935-21ce-9100-0800094e7c5b mmolinet

Group: 00000080-e933-21ce-9101-0800094e7c5b IR1

Local Groups:

00000080-e933-21ce-9101-0800094e7c5b IR1

0000007a-e924-21ce-9601-0800094e7c5b subsys/dce/cds-admin

Identity Info Expires: 95/09/20:03:32:18

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_0aa3d000

Default principal: mmolinet@ecscell.hitc.com

Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/19:17:32:18 to 95/09/20:03:32:18

Server: dce-rgy@ecscell.hitc.com

valid 95/09/19:17:32:26 to 95/09/20:03:32:18

Server: dce-ptgt@ecscell.hitc.com

valid 95/09/19:17:32:59 to 95/09/19:19:32:59

Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/19:17:33:00 to 95/09/19:19:32:59

Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com

valid 95/09/19:17:33:00 to 95/09/19:19:32:59

chichi{mmolinet}21: kdestroy

chichi{mmolinet}22: klist

No DCE identity available: No currently established network identity for which context exists (dce / sec)

Kerberos Ticket Information:

klist: No credentials cache file found (dce / krb) while setting cache flags (ticket cache /opt/dcelocal/var/security/creds/dcecred_0aa3d000)

chichi{mmolinet}23: exit

chichi{mmolinet}24: chichi{mmolinet}90:

3.1.4.4 Recommendations and Conclusions

None.

3.1.5 User Password Reset (TC003.004)

3.1.5.1 Test Summary

This test case demonstrates the ability of a DCE administrator to reset a user password. The test was ran in two part: Unix password reset and DCE password reset. Both have been demonstrated successfully by the Unix/DCE administrator. See test results for more detail.

3.1.5.2 Deviations (if applicable)

Test Inputs

A DCE password reset for a specific ID.

The valid DCE ID and reset password.

A reset DCE password, new password, and repeated new password.

The valid DCE ID and new password.

Test Steps

Reset a DCE user password using an administration ID.

Perform a DCE user logon with the ID and reset password.

Perform a DCE password change.

Log off.

Log on with the new password.

Log off.

Attempt logon with reset password.

Attempt logon with old password.

Test Outputs

Screen outputs showing the success or failure of the DCE logon/logoff attempts.

Success Criteria

Successful DCE logon with the reset password.

A forced password change.

Successful DCE logon with the changed password.

Failed logon with reset and old password.

Assumptions and Constraints:

Test case 1.2 must pass prior to attempting this test case.

3.1.5.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	User Password Reset
Test Case ID:	TC 1.5 (TC003.004)

Test Location: EDF DAAC:		
S/W Config./ Version:	See /Ir1_IT/T1/TC1_5/TC1_5_env on dps3sunedf.	
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_5/TC1_5_env on dps3sunedf.	
Test Data:	N/A	
Test Tools/ Scripts:	N/A	
Test Date: 9/20/95	Test Time: 10:00 AM	Tester(s): Mike Molinet
Witness(es): N/A		
Comments: Test ran smoothly. See vi test log (/Ir1_IT/T1/TC1_5/TC1_5_log on dps3sunedf).		

NCRs Written:	0		
NCRs Verified:	N/A		
NCRs Un-Verified:	N/A		
Pass		Fail	Partial Pass/Fail
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_4_env

Date/Time: Tue Sep 19 17:01:33 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

SunOS chichi 5.4 Generic_101945-27 sun4m sparc

LIST OF ACTIVE PROCESSES:

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum

DISPLAY=:0.0

EDITOR=vi

HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help

HOME=/home/mmolinet

HOST=chichi

HZ=100

KRB5CCNAME=FILE:/opt/dcelocal/var/security/creds/dcecred_071e5500

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LOGNAME=mmolinet

MAIL=/var/spool/mail/mmolinet

MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfd/doc/man:/usr/local/man

MERCURY_ELMHOST=sim.hitc.com

MOTIFHOME=/opt/SUNWmotif

M_LROOT=/net/sim.hitc.com/data/tools/QA/Irunner

M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner

NCD_LIBRARY_PATH=/usr/lib/X11/ncd

NOSUNVIEW=0

OPENWINHOME=/usr/openwin

PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfd/doc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/ado be:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/Irunner/bin:/net/sim.hitc.com/data/tools/QA/Irunner/samples/Irbin

PWD=/tmp/Ir1_IT

REMOTEDISPLAY=chichi:0.0

SHELL=/bin/csh

TERM=vs100

TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r]\E[m\E[2J\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r]\E[m]\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:E<:k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=^H:kd=\EOB:ke=\E[?1l\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:sc=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:

TRMMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmmsim

TZ=US/Eastern

USER=mmolinet

VISUAL=vi

WINDOWID=16777229

XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S

XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

cpu=chichi

SHELL VARIABLES AND THEIR VALUES:

AB_CARDATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum

DISPLAY=:0.0

EDITOR=vi

HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help

HOME=/home/mmolinet

HOST=chichi

HZ=100

IFS=

KRB5CCNAME=FILE:/opt/dcelocal/var/security/creds/dcecred_071e5500

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LOGNAME=mmolinet

MAIL=/var/spool/mail/mmolinet

MAILCHECK=600

MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man

MERCURY_ELMHOST=sim.hitc.com

MOTIFHOME=/opt/SUNWmotif

M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner

M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner

NCD_LIBRARY_PATH=/usr/lib/X11/ncd

NOSUNVIEW=0

OPENWINHOME=/usr/openwin

OPTIND=1

PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/
man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:

/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/ado
be:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xr
unner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin

PWD=/tmp/Ir1_IT

REMOTEDIPLAY=chichi:0.0

SHELL=/bin/csh

TERM=vs100

TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[
%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m\E[2J\
E[H\E[?7h\E[?1;3;4;6l\E[4l:E<:k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=^H:kd=\EOB:ke=\E[?1l\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#
65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:sc=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E
[m:xn:

TRMMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmmsim

TZ=US/Eastern

USER=mmolinet

VISUAL=vi

WINDOWID=16777229

XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S

XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

cpu=chichi

platform=SunOS

selection=1

testid=TC1_4_env

Test Case 1.4 (TC003.003)

9/19/95

/disk1/Ir1_IT/T1/TC1_4/TC1_4_log

chichi{mmolinet}86: pwd

/tmp/Ir1_IT

chichi{mmolinet}87: dce_login mmolinet

Enter Password:

chichi{mmolinet}13: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/mmolinet

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 00000834-e935-21ce-9100-0800094e7c5b mmolinet

Group: 00000080-e933-21ce-9101-0800094e7c5b IR1

Local Groups:

00000080-e933-21ce-9101-0800094e7c5b IR1

0000007a-e924-21ce-9601-0800094e7c5b subsys/dce/cds-admin

Identity Info Expires: 95/09/20:03:09:57

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_0a0f8f00

Default principal: mmolinet@ecscell.hitc.com

Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/19:17:09:57 to 95/09/20:03:09:57

Server: dce-rgy@ecscell.hitc.com

valid 95/09/19:17:10:01 to 95/09/20:03:09:57

Server: dce-ptgt@ecscell.hitc.com

valid 95/09/19:17:10:06 to 95/09/19:19:10:06

Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/19:17:10:06 to 95/09/19:19:10:06

Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com

valid 95/09/19:17:10:06 to 95/09/19:19:10:06

chichi{mmolinet}16: rgy_edit

Current site is: registry server at /.../ecscell.hitc.com

rgy_edit=> do a

Domain changed to: account

rgy_edit=> v mmolinet

mmolinet [IR1 HAIS]:*:2100:128:Mike Molinet (HAIS):/home/mmolinet:/bin/csh:

rgy_edit=> c -p mmolinet -g IR1 -o HAIS -pw newpass -mp testpass2

rgy_edit=> exit

bye.

chichi{mmolinet} 18: kdestroy

chichi{mmolinet} 19: exit

chichi{mmolinet} 20: chichi{mmolinet}88: dce_login mmolinet

Enter Password:

Sorry.

Password Validation Failure. - Invalid password (dce / sec)

chichi{mmolinet}89: dce_login mmolinet

Enter Password:

chichi{mmolinet}20: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/mmolinet

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 00000834-e935-21ce-9100-0800094e7c5b mmolinet

Group: 00000080-e933-21ce-9101-0800094e7c5b IR1

Local Groups:

00000080-e933-21ce-9101-0800094e7c5b IR1

0000007a-e924-21ce-9601-0800094e7c5b subsys/dce/cds-admin

Identity Info Expires: 95/09/20:03:32:18

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_0aa3d000

Default principal: mmolinet@ecscell.hitc.com

Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/19:17:32:18 to 95/09/20:03:32:18

Server: dce-rgy@ecscell.hitc.com

valid 95/09/19:17:32:26 to 95/09/20:03:32:18

Server: dce-ptgt@ecscell.hitc.com

valid 95/09/19:17:32:59 to 95/09/19:19:32:59

Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/19:17:33:00 to 95/09/19:19:32:59

Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com

valid 95/09/19:17:33:00 to 95/09/19:19:32:59

chichi{mmolinet}21: kdestroy

chichi{mmolinet}22: klist

No DCE identity available: No currently established network identity for which context exists (dce / sec)

Kerberos Ticket Information:

klist: No credentials cache file found (dce / krb) while setting cache flags (ticket cache /opt/dcelocal/var/security/creds/dcecred_0aa3d000)

chichi{mmolinet}23: exit

chichi{mmolinet}24: chichi{mmolinet}90:

3.1.5.4 Recommendations and Conclusions

In order to perform this test, the Unix administrator and DCE administrator authority are needed.

3.1.6 Security Registry Maintenance (TC003.005)

3.1.6.1 Test Summary

This test case demonstrates the ability of a DCE administrator to maintain the security registry. It excercised the use of the valid administrator ID and password, add, change and delete registry commands, valid access control privileges and invalid access control privileges. See test result for more detail.

3.1.6.2 Deviations (if applicable)

Test Inputs

A valid DCE administrator ID and password.

Valid add, change and delete registry commands.

Valid access control privileges.

Test Steps

Execute a DCE security administrator logon.

Perform add, change and delete commands to the security registry.

Verify that the user accounts contain user name, password, group and user identification code, login directory and command line interpreter.

Log off.

Verify the history log file.

Perform DCE logon with user ID.

Perform add, change and delete commands to the security registry.

Verify that the Security Management Application Service provides the capability to set, maintain, and update the access control (i.e., read, write, execute privileges) information for ECS resources.

Log off.

Execute a logon to a server.

Perform change of DCE password for the server.

Verify that the server recognizes the new password, and ensure that there is a valid DCE login prompt.

Log off.

Verify that the Security Management Application Service provides the capability to set, maintain, and update the access control (i.e., read, write, execute privileges) information for ECS resources.

Outputs

A history log file.

Success Criteria

Validation by the history log file that the adds, changes, and deletes were properly made. User ID attempts to maintain directory are rejected.

Assumptions and Constraints

With respect to requirement C-CSS-21100, only connect level authentication is being utilized in Ir1. Request and packet level authentication will be utilized in later releases. Only login failure notification is implemented in Ir1, so the other intrusions (unauthorized access to ECS resources, break-ins, and viruses and worms) noted in requirement C-MSS-70700 will not be tested at this time.

3.1.6.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	Security Registry Maintenance
Test Case ID:	TC 1.6 (TC003.005)
Test Location:	EDF DAAC:

S/W Config./ Version:	See /Ir1_IT/T1/TC1_6/TC1_6_env on dps3sunedf.		
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_6/TC1_6_env on dps3sunedf.		
Test Data:	N/A		
Test Tools/ Scripts:	N/A		
Test Date: 9/21/95	Test Time: AM	Tester(s):	Mike Molinet
Witness(es): N/A			
Comments: Test ran smoothly following clarification of requirements. See vi test log (/Ir1_IT/T1/TC1_6/TC1_6_log on dps3sunedf).			

NCRs Written:	0		
NCRs Verified:	N/A		
NCRs Un-Verified:	N/A		
Pass		Fail	Partial Pass/Fail
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_6_env

Date/Time: Thu Sep 21 10:06:59 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

HP-UX apalmer A.09.05 A 9000/755 2011913188 two-user license

LIST OF ACTIVE PROCESSES:

```
mmolinet 10427 10419 0 10:06:59 ttys3 0:00 /bin/sh env3
mmolinet 10419 10394 3 10:06:24 ttys3 0:00 /bin/sh env3
mmolinet 10394 10393 0 10:03:12 ttys3 0:00 -csh
mmolinet 10428 10427 5 10:06:59 ttys3 0:00 ps -edf
```

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

COLUMNS=80

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum

EDITOR=vi

HOME=/home/mmolinet

HOST=apalmer

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LINES=63
LOGNAME=mmolinet
MAIL=/usr/mail/mmolinet
MANPATH=/usr/atria/doc/man
MERCURY_ELMHOST=sim.hitc.com
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
PATH=.:./home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consim:/var:/etc:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/usr/atria/bin
SHELL=/bin/csh
TERM=vs100
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
VISUAL=vi

SHELL VARIABLES AND THEIR VALUES:

COLUMNS=80

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum

EDITOR=vi

HOME=/home/mmolinet

HOST=apalmer

IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LINES=63

LOGNAME=mmolinet

MAIL=/usr/mail/mmolinet

MAILCHECK=600

MANPATH=/usr/atria/doc/man

MERCURY_ELMHOST=sim.hitc.com

M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner

M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner

PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/usr/atria/bin

SHELL=/bin/csh

TERM=vs100

TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim

TZ=EST5EDT

VISUAL=vi

platform=HP-UX

selection=1

testid=TC1_6_env

Test Case 1.6 (TC003.005) 9/21/95

/disk1/Ir1_IT/T1/TC1_6/TC1_6_log

This test is being run remotely via "rainman" from xterm in Rm. 2109C.

Those requirements which pertain to "reports," in conjunction with DCE or Unix security, do not pertain to Sybase database reports, which will be tested in conjunction with history log functionality. The information shown below can be considered as an rgy_edit report.

apalmer{mmolinet}65: pwd

/Ir1_IT/T1/TC1_6

apalmer{mmolinet}66: dce_login it_admin

Enter Password:

apalmer{mmolinet}11: rgy_edit

Current site is: registry server at /.../ecscell.hitc.com/subsys/dce/sec/master

rgy_edit=> do group

Domain changed to: group

rgy_edit=> view

nogroup	-2
system	0
daemon	1
uucp	2
bin	3
kmem	4
mail	6
tty	7
none	12
tcb	18
acct-admin	120
subsys/dce/sec-admin	121
subsys/dce/cds-admin	122
subsys/dce/dts-admin	123
subsys/dce/dskl-admin	124

subsys/dce/cds-server	125
subsys/dce/dts-servers	126
EPUSER	127
IR1	128
RELA	129
RELB	130
M&O	131
CSMS	132
CSS	133
SIP	134

rgy_edit=> v M&O -m

M&O	131
-----	-----

1 members

reginald

rgy_edit=> member M&O -a gtadmor

rgy_edit=> view M&O -m

M&O	131
-----	-----

2 members

reginald, gtadmor

rgy_edit=> do o

Domain changed to: org

rgy_edit=> v

none	12
HAIS	100
HTSC	101
ARC	102
LORAL	103
EDS	104
NYMA	105
NASA	106
CONTR	107
ESSi	108

rgy_edit=> member NASA -a gtadmor

rgy_edit=> v NASA -m

NASA	106
------	-----

2 members

guest, gtadmor

Domain changed to: account

rgy_edit=> change -p gtadmor

Enter new misc info:

Enter new home directory:

Enter new shell:

Password valid [y/n]?

Enter new expiration date [yy/mm/dd or 'none']:

Allow account to be server principal [y/n]?

Allow account to be client principal [y/n]?

Account valid for login [y/n]?

Allow account to obtain post-dated certificates [y/n]?

Allow account to obtain forwardable certificates [y/n]?

Allow certificates to this account to be issued via TGT authentication [y/n]?

Allow account to obtain renewable certificates [y/n]?

Allow account to obtain proxiable certificates [y/n]?

Allow account to obtain duplicate session keys [y/n]?

Good since date [yy/mm/dd or 'now']:

Create/Change auth policy for this acct [y/n]? (n)

Change Account=> Enter account id [pname]: gtadmor

Enter account group [gname]: IR1

Enter account organization [oname]: HAIS

Enter new account id [pname]: (gtadmor) gtadmor

Enter new account group [gname]: (IR1) M&O

Enter new account org [oname]: (HAIS) NASA

Change password? [y/n]? (n) n

Enter new misc info: (Gil Tadmor (HAIS)) n

Enter new home directory: (/home/gtadmor)

Enter new shell: (/bin/csh)

Password valid [y/n]? (y)

Enter new expiration date [yy/mm/dd or 'none']: (none)

Allow account to be server principal [y/n]? (y)

Allow account to be client principal [y/n]? (y)

Account valid for login [y/n]? (y)

Allow account to obtain post-dated certificates [y/n]? (n)

Allow account to obtain forwardable certificates [y/n]? (y)

Allow certificates to this account to be issued via TGT authentication [y/n]? (y)

Allow account to obtain renewable certificates [y/n]? (y)

Allow account to obtain proxiable certificates [y/n]? (n)

Allow account to obtain duplicate session keys [y/n]? (n)

Good since date [yy/mm/dd or 'now']: (1995/09/07.13:02)

Create/Change auth policy for this acct [y/n]? (n)

Change Account=> Enter account id [pname]:

```
rgy_edit=> v gtadmor  
gtadmor [M&O NASA]:*:790:131:n:/home/gtadmor:/bin/csh:
```

```
rgy_edit=> do g  
Domain changed to: group
```

```
IR1 128
```

```
12 members
```

```
jwatts, gtadmor, mmolinet, kmiller, lmagday, vkhatri, dhickman, pchang  
kcampbel, jbrewste, laks, it_admin
```

```
rgy_edit=> member IR1 -r gtadmor
```

```
WARNING: any accounts for (gtadmor IR1) will also be deleted.
```

```
Please confirm removal of "gtadmor" from membership list [y/n]? (n) y
```

```
rgy_edit=> v IR1 -m  
IR1 128
```

```
11 members
```

```
jwatts, mmolinet, kmiller, lmagday, vkhatri, dhickman, pchang, kcampbel  
jbrewste, laks, it_admin
```

```
rgy_edit=> exit
```

```
bye.
```

```
apalmer{mmolinet}20: dce_login mmolinet
```

```
Enter Password:
```

```
apalmer{mmolinet}21: rgy_edit
```

```
Current site is: registry server at /.../ecscell.hitc.com/subsys/dce/sec/master
```

```
rgy_edit=> do group
```

```
Domain changed to: group
```

```
rgy_edit=> v CSMS -m
```

```
CSMS 132
```

```
No members
```

```
rgy_edit=> member CSMS -a gtadmor
```

```
?(rgy_edit) Unable to add member gtadmor to group CSMS - User not authorized to perform operation (Registry Edit Kernel) (dce / sad)
```

```
rgy_edit=> v CSMS -m
```

```
CSMS 132
```

```
No members
```

```
rgy_edit=> member M&O -r gtadmor
```

```
WARNING: any accounts for (gtadmor M&O) will also be deleted.
```

```
Please confirm removal of "gtadmor" from membership list [y/n]? (n) y
```

```
?(rgy_edit) Unable to remove member gtadmor from group M&O - User not authorized to perform operation (Registry Edit Kernel) (dce / sad)
```

```
rgy_edit=> v M&O -m
```

```
M&O 131
```

2 members

reginald, gtadmor

rgy_edit=> do a

Domain changed to: account

rgy_edit=> change -p gtadmor

Enter new misc info:

Enter new home directory:

Enter new shell:

Password valid [y/n]? n

Enter new expiration date [yy/mm/dd or 'none']:

Allow account to be server principal [y/n]?

Allow account to be client principal [y/n]?

Account valid for login [y/n]? n

Allow account to obtain post-dated certificates [y/n]?

Allow account to obtain forwardable certificates [y/n]?

Allow certificates to this account to be issued via TGT authentication [y/n]?

Allow account to obtain renewable certificates [y/n]?

Allow account to obtain proxiable certificates [y/n]?

Allow account to obtain duplicate session keys [y/n]?

Good since date [yy/mm/dd or 'now']:

Create/Change auth policy for this acct [y/n]? (n) y

Enter maximum certificate lifetime in hours or 'forever':

Enter maximum certificate-renewable lifetime in hours or 'forever':

Change account "gtadmor M&O NASA" [y/n/g/q]? y

?(rgy_edit) Change was not complete - Unable to change account admin information (dce / sad)

?(rgy_edit) Underlying cause was - User not authorized to perform operation (Registry Edit Kernel) (dce / sad)

Change Account=> Enter account id [pname]: gtadmor

Enter account group [gname]: CSMS

Enter account organization [oname]: HAIS

?(rgy_edit) Unable to change account "HAIS" - Account does not exist (Registry Edit Kernel) (dce / sad)

FAULT 0x17083008 at line 8554 of file /dce/src/security/client/admin/rgy_edit/ek_db.c

apalmer{mmolinet}22:

apalmer{mmolinet}76: dce_login gtadmor

Enter Password:

apalmer{mmolinet}27: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: ../../ecscell.hitc.com/gtadmor

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b ../../ecscell.hitc.com

Principal: 00000316-e935-21ce-9100-0800094e7c5b gtadmor

Group: 00000083-e933-21ce-9101-0800094e7c5b M&O

Local Groups:

00000083-e933-21ce-9101-0800094e7c5b M&O

Identity Info Expires: 95/09/22:01:58:46

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_35bff900

Default principal: gtadmor@ecscell.hitc.com

Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/21:15:58:46 to 95/09/22:01:58:46

Server: dce-rgy@ecscell.hitc.com

valid 95/09/21:15:58:49 to 95/09/22:01:58:46

Server: dce-ptgt@ecscell.hitc.com

valid 95/09/21:15:58:57 to 95/09/21:17:58:57

Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/21:15:58:57 to 95/09/21:17:58:57

Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com

valid 95/09/21:15:58:57 to 95/09/21:17:58:57

apalmer{mmolinet}28: rgy_edit

Current site is: registry server at /.../ecscell.hitc.com/subsys/dce/sec/master

rgy_edit=> do a

Domain changed to: account

rgy_edit=> v gtadmor

gtadmor [M&O NASA]:*:790:131:n:/home/gtadmor:/bin/csh:

rgy_edit=> exit

bye.

apalmer{mmolinet}29: kdestroy

apalmer{mmolinet}30: exit

3.1.6.4 Recommendations and Conclusions

Those requirements which pertain to "reports", in conjunction with DCE or Unix security, do not pertain to Sybase database reports, which was tested in conjunction with history log functionality. The information showed in test log TC1_6_log can be considered as an rgy_edit report.

3.1.7 Security Privilege Test (TC003.006)

3.1.7.1 Test Summary

This test case demonstrates system level Unix privilege integrity. Test run successfully by using two different accounts with combinations use privileges allowed/not allowed, such as file access, directory update and operator functions. See contents under test result for more detail.

3.1.7.2 Deviations (if applicable)

Test Inputs

A set of three valid Unix IDs and passwords with different system privileges.

Test Steps

Log on and log off using three valid ID/Password combinations.

For each ID/Password combination, use privileges allowed (file access, directory update, operator functions, etc.).

For each ID/Password combination, use privileges not allowed (file access, directory update, operator functions, etc.).

Test Outputs

Screen outputs showing the success or failure of the use of system privilege. System Management logs.

Success Criteria

Valid privilege use allowed. Invalid privilege use disallowed. System log records showing invalid attempts.

Assumptions and Constraints

Original test was designed to use three valid ID/Password combinations

but during the test it was discovered that two valid ID/Password combinations
were sufficient.

3.1.7.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	Security Privilege Maintenance

Test Case ID:	TC 1.7 (TC003.006)	
Test Location:	EDF	DAAC:
S/W Config./ Version:	See /Ir1_IT/T1/TC1_7/TC1_7_env on dps3sunedf.	
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_7/TC1_7_env on dps3sunedf.	
Test Data:	Various text files.	
Test Tools/ Scripts:	N/A	
Test Date: 10/04/95	Test Time: PM	Tester(s): Mike Molinet
Witness(es): IV&V (Shiheng Cherng)		
Comments: Test ran smoothly following clarification of requirements/steps. See vi test log (/Ir1_IT/T1/TC1_7/TC1_7_log on dps3sunedf).		

NCRs Written:	0				
NCRs Verified:	N/A				
N C R s U n - Verified:	N/A				
Pass		Fail		Partial Pass/Fail	
1st Run		Formal Run		Retest	
Release					

TEST CASE IDENTIFICATION: TC1_7_env

Date/Time: Wed Oct 4 14:03:30 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

SunOS nickalus 5.4 Generic_101945-27 sun4m sparc

LIST OF ACTIVE PROCESSES:

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim

DISPLAY=:0.0

DSQUERY=/data/sybase

EBTRC=/data/sybase/sybooks/sun4m/.ebtrc

EDITOR=vi

HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help

HOME=/home/mmolinet

HOST=nickalus
HZ=100
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consimm:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/data/sybase:/data/sybase/bin:/data/sybase/sybooks/sun4m/bin
PWD=/data/Ir1
REMOTEDIPLAY=nickalus:0.0
SHELL=/bin/csh
SYBASE=/data/sybase

SYBROOT=/data/sybase/sybooks

TERM=vs100

TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:E<;k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=^H:kd=\EOB:ke=\E[?1l\E:>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:m e=\E[m:mr=\E[7m:ms:nd=\E[C:pt:sc=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:

TRMMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmmsim

TZ=US/Eastern

USER=mmolinet

VISUAL=vi

WINDOWID=20971533

XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S

XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

cpu=nickalus

SHELL VARIABLES AND THEIR VALUES:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim

DISPLAY=:0.0

DSQUERY=/data/sybase

EBTRC=/data/sybase/sybooks/sun4m/.ebtrc
EDITOR=vi
HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help
HOME=/home/mmolinet
HOST=nickalus
HZ=100
IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MAILCHECK=600
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
OPTIND=1
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/S

UNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/data/sybase:/data/sybase/bin:/data/sybase/sybooks/sun4m/bin

PWD=/data/Ir1

REMOTEDIPLAY=nickalus:0.0

SHELL=/bin/csh

SYBASE=/data/sybase

SYBROOT=/data/sybase/sybooks

TERM=vs100

TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l\E<:k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=^H:kd=\EOB:ke=\E[?11\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:s=c=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:

TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim

TZ=US/Eastern

USER=mmolinet

VISUAL=vi

WINDOWID=20971533

XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S

XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

cpu=nickalus

platform=SunOS

selection=1

testid=TC1_7_env

Test Case 1.7 (TC003.006) 10/4/95

/Ir1_IT/T1/TC1_7/TC1_7_log

This test is being run directly on nickalus (AI&T WS).

Only 2 accounts are needed for this test (mmolinet & pchang).

nickalus{mmolinet}15: pwd

/home/mmolinet

nickalus{mmolinet}16: ls

CSS_TEST/ Mail Netperf/

CSS_files_list Misc/ background

MSS_install_env NetMan/ old.dotfiles/

nickalus{mmolinet}17: cd NetMan

/home/mmolinet/NetMan

nickalus{mmolinet}18: pwd

/home/mmolinet/NetMan

nickalus{mmolinet}19: ls

```
EtherNet-codes      hershey-dec-mips.tar.Z
README             hershey-sgi.tar.Z
hershey/          hershey-sun4c.tar.Z
hershey-dec-alpha.tar.Z
nickalus{mmolinet}23: ll
total 728

drwxr-xr-x  3 mmolinet users  4096 Aug  6 19:33 .
drwxr-xr-x 17 mmolinet users  4096 Oct  4 14:24 ..
-rw-rw-r--  1 mmolinet users 26377 Feb  6 1995 EtherNet-codes
-rw-rw-r--  1 mmolinet users 2923 Feb  6 1995 README
drw-rw-r--  2 mmolinet users  4096 Aug  6 19:33 hershey/
-rw-rw-r--  1 mmolinet users 75681 Feb  6 1995 hershey-dec-alpha.tar.Z
-rw-rw-r--  1 mmolinet users 75681 Feb  6 1995 hershey-dec-mips.tar.Z
-rw-rw-r--  1 mmolinet users 74137 Feb  6 1995 hershey-sgi.tar.Z
-rw-rw-r--  1 mmolinet users 77099 Feb  6 1995 hershey-sun4c.tar.Z
nickalus{mmolinet}24: more README
```

Network monitoring and visualisation tools 21st November 1993
netman@cs.curtin.edu.au

Netman Release 1.1

Overview:

We have developed a set of tools which may be used to monitor and "display" network communications. Two of the tools provide a real-time picture of network communications, while the other provides retrospective packet analysis. These tools are designed to allow network managers to

You will also need:

~ftp/pub/netman/hershey-[sun4c|dec-mips|sgi|alpha|solaris].tar.Z

--

Mike Schulze, Craig Farrell.

Department of Computer Science

Curtin University

Perth, West Australia

nickalus{mmolinet}26: h

25 vi README

Network monitoring and visualisation tools 21st November 1993

netman@cs.curtin.edu.au

***THIS TEXT IS PART OF TEST CASE 1.7 ***

Netman Release 1.1

```
ckalus{mmolinet}28: pwd  
/home/mmolinet/NetMan  
nickalus{mmolinet}29: cd ..  
/home/mmolinet  
nickalus{mmolinet}30: cp NetMan/README .  
nickalus{mmolinet}31: ls  
CSS_TEST/      Mail/       Netperf/      old.dotfiles/  
CSS_files_list  Misc/       README  
MSS_install_env NetMan/     background
```

```
nickalus{mmolinet}7: su pchang  
Password:  
nickalus{pchang}7: pwd  
/data/Ir1/T1/TC1_7  
nickalus{pchang}8: cd  
/home/mmolinet  
nickalus{pchang}9: cd ..  
/home  
nickalus{pchang}10: ls  
aouyang/  ddts/   jolyonm/  pchang/  stackley/  tools.man/  
asiyyid/  dhickman/ jwatts/  pdurao/  toma/  
cboettch/ ide/    mmolinet/ rmorris/  tools/
```

```
nickalus{pchang}11: cd pchang
/home/pchang
nickalus{pchang}12: source .cshrc
nickalus{pchang}13: pwd
/home/pchang
nickalus{pchang}14: ls
Mail/      Xdefaults.swin  env3*      rptc006.002
TC1.14     c++/        1          tc006.002
TC1.14_log   dce/        mbox       test.ada
TC2.3      dead.letter  p8-1.C
TC2.3_log    dumpster/   ping/
nickalus{pchang}15: ll
total 221
{dot files not included}
drwx----- 3 pchang  users      512 Sep 26 16:33 Mail/
-rw-r--r--  1 pchang  Ir1_IT    5091 Oct  2 11:23 TC1.14
-rw-r--r--  1 pchang  Ir1_IT    4111 Oct  2 12:11 TC1.14_log
-rw-r--r--  1 pchang  users     2659 Sep 25 15:08 TC2.3
-rw-------  1 pchang  users     3426 Sep 25 15:34 TC2.3_log
-rw-r--r--  1 pchang  users     154 Sep 26 10:03 Xdefaults.swin
drwxr-xr-x  2 pchang  users      512 Sep  1 14:15 c++
drwxr-xr-x  2 pchang  users      512 Oct  2 11:34 dce/
```

```
-rw----- 1 pchang mail      2140 Sep 26 16:33 dead.letter
drwxr-xr-x 3 pchang users     512 Aug 17 08:55 dumpster/
-rwxrwxr-x 1 pchang users    2142 Sep 25 12:06 env3*
-rw-r--r-- 1 pchang users    4467 Sep 26 10:00 1
-rw----- 1 pchang users    2412 Sep 25 12:30 mbox
-rw-r--r-- 1 pchang users    4051 Sep  1 13:39 p8-1.C
drwxrwxr-x 4 pchang users    512 Sep 15 14:48 ping/
-rw----- 1 pchang users    594 Sep 25 15:18 rptc006.002
-rw----- 1 pchang users    3426 Sep 25 15:15 tc006.002
-rw-r--r-- 1 pchang Ir1_IT   2455 Oct  4 11:13 test.ada
```

nickalus{pchang}16: cd ..//mmolinet

/home/mmolinet

nickalus{pchang}17: ll

total 545

{dot files not included}

```
drwxrwxr-x 2 mmolinet users    4096 Sep 18 13:56 CSS_TEST/
-rw-rw-r-- 1 mmolinet users    3594 Sep 14 04:56 CSS_files_list
-rw-rw-r-- 1 mmolinet users    4682 Sep 12 05:48 MSS_install_env
drwx----- 3 mmolinet users    4096 Sep 25 16:26 Mail/
drwxrwxrwx 2 mmolinet users    4096 Sep 28 14:48 Misc/
drwxr-xr-x 3 mmolinet users    4096 Aug  6 19:33 NetMan/
drwxr-xr-x 4 mmolinet users    4096 Aug  6 19:33 Netperf/
```

```
-rw-rw-r-- 1 mmolinet Ir1_IT 2964 Oct  4 14:35 README
-rw-rw-r-- 1 mmolinet users 504 Sep 14 07:35 background
drwxr-xr-x 2 root  users 4096 Aug  6 19:33 old.dotfiles/
nickalus{pchang}18: cd Mail
Mail: Permission denied
nickalus{pchang}19: cd Misc
/home/mmolinet/Misc
nickalus{pchang}20: ls
TC1_11_log  TC1_12_env1  TC1_12_log  dir_structure env3*
nickalus{pchang}21: ll
total 56
drwxrwxrwx 2 mmolinet users 4096 Sep 28 14:48 .
drwxr-xr-x 17 mmolinet users 4096 Oct  4 14:35 ..
-rw-rw-r-- 1 mmolinet Ir1_IT 3587 Sep 27 17:06 TC1_11_log
-rw-r--r-- 1 mmolinet users 2782 Sep 28 13:59 TC1_12_env1
-rw-rw-r-- 1 mmolinet users 2635 Sep 28 15:10 TC1_12_log
-rw-rw-r-- 1 mmolinet users 2670 Sep 21 13:28 dir_structure
-rwxrwxrwx 1 mmolinet Ir1_IT 2142 Sep 27 15:49 env3*
nickalus{pchang}28: vi TC1_12_env1
***THIS IS ALSO A TEST OF TC1.7***
TEST CASE IDENTIFICATION: TC1_12_env1
*****
```

```
"TC1_12_env1" File is read only
:quit!
nickalus{pchang}29: pwd
/home/mmolinet/Misc
nickalus{pchang}30: cd ..
/home/mmolinet
nickalus{pchang}31: mkdir IV_V
mkdir: Failed to make directory "IV_V"; Permission denied
```

3.1.7.4 Recommendations and Conclusions

Test was run successfully with 2 valid ID/Passwords, with valid and invalid privilege use.

3.1.8 Server Authentication (TC003.007)

3.1.8.1 Test Summary

This test case demonstrates a successful DCE server logon capability and the ability to interface with the DCE authentication database. Sniffer analyzer was used to monitor the network traffic. See test results for more detail.

3.1.8.2 Deviations (if applicable)

Test Inputs

DCE cell with an account in the DCE registry.

Test Steps

Log on and log off using three valid DCE machines.

Gathering information using a network analyzer, verify that the account name is **hosts/<machine-name>/self**.

Test Outputs

Screen outputs showing the success of the server logon attempts. Response times of each logon and logoff event.

Success Criteria

Three successful server logon attempts, with each event occurring in under 15 seconds.

Assumptions and Constraints

The three servers specified will have three separate account names.

3.1.8.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	Server Authentication
Test Case ID:	TC 1.8 (TC003.007)
Test Location:	EDF DAAC:
S/W Config./	See /Ir1_IT/T1/TC1_8/TC1_8_env on dps3sunedf.
Version:	

H/W Config./	See /Ir1_IT/T1/TC1_8/TC1_8_env on dps3sunedf.		
Host Names:			
Test Data:	N/A		
Test Tools/ Scripts:	Logic Analyzer/Sniffer		
Test Date: 9/25/95	Test Time: AM	Tester(s):	Mike Molinet
Witness(es): N/A			
Comments: Test ran smoothly. Unix authentication OK. DCE password not transmitted openly when directly logged into DCE client (trevino) or server (apalmer).			
Transmitted frames captured on sniffer/analyizer (tc1_8.enc on 3.5" diskette in Ethernet compressed data format). See vi test log (/Ir1_IT/T1/TC1_8/TC1_8_log on			
dps3sunedf).			

NCRs Written:	0		
NCRs Verified:	N/A		
N C R s U n - Verified:	N/A		
Pass	Fail	Partial Pass/Fail	
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_8_env

Date/Time: Tue Sep 26 13:37:27 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

HP-UX apalmer A.09.05 A 9000/755 2011913188 two-user license

LIST OF ACTIVE PROCESSES:

```
mmolinet 1491 1480 0 09:53:24 ?      0:00 xclock -name DigitalClock -digital -update 1
mmolinet 2237 2162 0 13:33:52 ttyp4  0:00 rlogin nickalus
mmolinet 1480 1116 0 09:53:19 ?      0:00 /usr/vue/bin/vuesession
mmolinet 1485 1480 0 09:53:20 ?      0:03 vuewm
mmolinet 2161 1485 0 13:18:46 ?      0:00 hpterm
mmolinet 1493 1480 0 09:53:24 ?      0:00 xload -name vueload -nolabel -iconic -xrm vueload*primaryCol
mmolinet 2265 2257 0 13:37:27 ttyp2  0:00 /bin/sh env3
mmolinet 2145 1485 0 13:18:32 ?      0:00 hpterm
mmolinet 2257 2146 0 13:37:17 ttyp2  0:00 /bin/sh env3
mmolinet 2238 2237 0 13:33:53 ttyp4  0:00 rlogin nickalus
mmolinet 1489 1 0 09:53:20 ttyp3  0:00 /usr/softbench/bin/softmsgsrv -bootfile /usr/softbench/confi
mmolinet 2146 2145 0 13:18:32 ttyp2  0:00 /bin/csh
mmolinet 2162 2161 0 13:18:46 ttyp4  0:00 csh
mmolinet 2267 2265 0 13:37:27 ttyp2  0:00 whoami
```

```
mmolinet 2266 2265 1 13:37:27 ttyp2 0:00 ps -edf
```

```
&d@&a0y0CJRSysystem: apalmer&a54CTue Sep 26B13:37:27 1995BLoad averages: 0.07, 0.07, 0.09B61 processes: 60 sleeping, 1 waitingBCpu states:  
0.4% user, 0.0% nice, 0.3% system, 99.2% idle, 0.0% unk5, 0.0% unk6, 0.0% unk7, 0.0% unk8BMemory: 20740K (15364K) real, 38160K (33032K) virtual,  
197468K free Screen # 1/2BBTTY PID USERNAME PRI NI SIZE RES STATE TIME %WCPU %CPU COMMANDDB? 1080 daemon 154 20  
4012K 1568K sleep 0:12 1.92 1.92 /usr/bin/XBp2 2146 mmolinet168 20 224K 176K sleep 0:00 0.60 0.60 /bin/cshB?&a7C160 root 154 20  
192K 236K sleep 0:05 0.57 0.57 /usr/etc/aB?&a7C974 root 154 10 4724K 1532K sleep 0:06 0.32 0.32 /opt/dceloB? 2145 mmolinet154 20  
4644K 516K sleep 0:00 0.24 0.24 hptermBp2 2257 mmolinet158 20 236K 100K sleep 0:00 0.44 0.17 /bin/sh enB?&a7C117 root 154 20  
180K 68K sleep 0:00 0.07 0.07 /etc/portmB?&a8C77 root 127 20 24K 64K sleep 0:02 0.05 0.05 /etc/synceB?&a7C970 root 154 20 3416K  
1076K sleep 0:03 0.01 0.01 /opt/dceloB? 1057 root 154 20 5656K 1820K sleep 0:32 0.01 0.01 /opt/dceloB? 1063 root 154 20 3340K  
1320K sleep 0:17 0.01 0.01 /opt/dceloB? 1062 root 154 20 3596K 1112K sleep 0:08 0.00 0.00 /opt/dceloB? 2161 mmolinet154 20 4624K  
496K sleep 0:00 0.00 0.00 hptermB? 1485 mmolinet154 20 5076K 1020K sleep 0:03 0.00 0.00 vuewmBp4 2238 mmolinet154 20 68K 164K  
sleep 0:00 0.00 0.00 rlogin nicp4 2237 mmolinet156 20 68K 164K sleep
```

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

```
*****
```

COLUMNS=65

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum

DISPLAY=apalmer:0.0

EDITOR=vi

HOME=/home/mmolinet

HOST=apalmer

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LINES=41

LOGNAME=mmolinet
MAIL=/usr/mail/mmolinet
MANPATH=/usr/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local/bin:/usr/local/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
PWD=/tmp_mnt/home/mmolinet
SHELL=/bin/csh
TERM=hpterm
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
USER=mmolinet
VISUAL=vi
WINDOWID=46137361

SHELL VARIABLES AND THEIR VALUES:

COLUMNS=65
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum
DISPLAY=apalmer:0.0
EDITOR=vi
HOME=/home/mmolinet
HOST=apalmer
IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LINES=41
LOGNAME=mmolinet
MAIL=/usr/mail/mmolinet
MAILCHECK=600
MANPATH=/usr/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
PWD=/tmp_mnt/home/mmolinet

SHELL=/bin/csh
TERM=hpterm
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
USER=mmolinet
VISUAL=vi
WINDOWID=46137361
platform=HP-UX
selection=1
testid=TC1_8_env
Test Case 1.8 (TC003.007) 9/25/95
/disk1/Ir1_IT/T1/TC1_8/TC1_8_log

This test is being run directly on apalmer.

apalmer{mmolinet}38: ls
CSS/ MSS/ env3*
apalmer{mmolinet}39: dce_login it_admin
Enter Password:
apalmer{mmolinet}69: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/it_admin

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecsc

ell.hitc.com

Principal: 000007e1-f35b-21ce-ac00-0800094e7c5b it_admin

Group: 00000080-e933-21ce-9101-0800094e7c5b IR1

Local Groups:

00000080-e933-21ce-9101-0800094e7c5b IR1

00000078-e924-21ce-9601-0800094e7c5b acct-admin

00000079-e924-21ce-9601-0800094e7c5b subsys/dce/s

ec-admin

0000007a-e924-21ce-9601-0800094e7c5b subsys/dce/c

ds-admin

0000007b-e924-21ce-9601-0800094e7c5b subsys/dce/d

ts-admin

Identity Info Expires: 95/09/26:23:57:52

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_09372600

Default principal: it_admin@ecscell.hitc.com

Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/26:13:57:52 to 95/09/26:23:57:52

Server: dce-rgy@ecscell.hitc.com

valid 95/09/26:13:57:58 to 95/09/26:23:57:52

Server: dce-ptgt@ecscell.hitc.com

valid 95/09/26:13:58:12 to 95/09/26:15:58:12

Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/26:13:58:12 to 95/09/26:15:58:12

Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com

valid 95/09/26:13:58:12 to 95/09/26:15:58:12

apalmer{mmolinet}70: kdestroy

apalmer{mmolinet}71: exit

apalmer{mmolinet}72: apalmer{mmolinet}40:

3.1.8.4 Recommendations and Conclusions

Test should not be run remotely, since DCE is not secure when remotely logged in.

3.1.9 Authentication Expiration (TC003.008)

3.1.9.1 Test Summary

The test verified that authentication tickets granted to users and processes expired in the configured time (1 hour). See test result for more detail.

3.1.9.2 Deviations (if applicable)

This test case verifies that DCE authentication tickets granted to users and processes expire in the configured time.

Test Inputs

A registry database with a set of process and user privileges.

A set of valid DCE user IDs and passwords.

Test Steps

Set ticket expiration time parameter to a short period of time.

Log DCE users on and exercise valid user system privileges.

Wait until ticket expiration time expires.

Repeat user and process privilege actions.

Modify ticket expiration time and repeat.

Test Outputs

System logs showing failed privilege attempts.

Success Criteria

Privilege allowed prior to ticket expiration. Privilege disallowed after ticket expiration.

Assumptions and Constraints

3.1.9.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	Authentication Expiration
Test Case ID:	TC 1.9 (TC003.008)
Test Location:	EDF DAAC:
S/W Config./ Version:	See /Ir1_IT/T1/TC1_9/TC1_9_env on dps3sunedf.
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_9/TC1_9_env on dps3sunedf.
Test Data:	N/A
Test Tools/ Scripts:	N/A

Test Date: 9/26/95	Test Time: 9:00 AM	Tester(s): Mike Molinet
Witness(es): N/A		
Comments: Test ran smoothly. See vi test log (/Ir1_IT/T1/TC1_9/TC1_9_log on dps3sunedf).		
NCRs Written:	0	
NCRs Verified:	N/A	

N C R s	U n -	N/A
Verified:		
	Pass	Fail
1st Run	Formal Run	Retest
		Partial Pass/Fail
		Release

TEST CASE IDENTIFICATION: TC1_9_env

Date/Time: Tue Sep 26 11:13:12 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

HP-UX apalmer A.09.05 A 9000/755 2011913188 two-user license

LIST OF ACTIVE PROCESSES:

```
mmolinet 1491 1480 0 09:53:24 ? 0:00 xclock -name DigitalClock -digital -update 1
mmolinet 1480 1116 0 09:53:19 ? 0:00 /usr/vue/bin/vuesession
mmolinet 1485 1480 0 09:53:20 ? 0:00 vuewm
mmolinet 1765 1405 0 11:13:02 ttys0 0:00 /bin/sh env3
mmolinet 1493 1480 0 09:53:24 ? 0:00 xload -name vueload -nolabel -iconic -xrm vueload*primaryCol
mmolinet 1773 1765 0 11:13:12 ttys0 0:00 /bin/sh env3
mmolinet 1405 1404 0 09:40:03 ttys0 0:00 /bin/csh
mmolinet 1489 1 0 09:53:20 ttyp3 0:00 /usr/softbench/bin/softmsgsrv -bootfile /usr/softbench/confi
mmolinet 1775 1773 0 11:13:12 ttys0 0:00 whoami
mmolinet 1774 1773 2 11:13:12 ttys0 0:00 ps -edf
root 1643 1053 0 10:43:20 ? 0:00 /opt/dcelocal/bin/cdsclerk -U mmolinet -u 2100 -m 7
```

[m[H[2J7[1;51r8System: apalmer[39CTue Sep 26 11:13:12 1995

Load averages: 0.04, 0.11, 0.10

57 processes: 56 sleeping, 1 waiting

Cpu states: 0.5% user, 0.0% nice, 0.4% system, 99.1% idle, 0.0% unk5, 0.0% unk6
, 0.0% unk7, 0.0% unk8

Memory: 20780K (15892K) real, 38800K (33788K) virtual, 197688K free[5CScreen # 1/2

TTY PID USERNAME PRI NI SIZE RES STATE TIME %WCPU %CPU COMMAND

```
?[5C1057 root  154 20 5244K 1756K sleep  0:19  0.48  0.48 /opt/dcelo
?[6C160 root  154 20 188K 232K sleep  0:03  0.40  0.40 /usr/etc/a
s0  1765 mmolinet158 20 236K 96K sleep  0:00  0.64  0.25 /bin/sh en
s0  1405 mmolinet168 20 224K 176K sleep  0:00  0.11  0.11 /bin/csh
?[5C1062 root  154 20 3580K 1104K sleep  0:05  0.07  0.07 /opt/dcelo
?[6C974 root  154 10 4724K 1520K sleep  0:03  0.06  0.06 /opt/dcelo
?[6C117 root  154 20 180K 68K sleep  0:00  0.05  0.05 /etc/portm
?[5C1063 root  154 20 3340K 1320K sleep  0:10  0.03  0.03 /opt/dcelo
?[6C970 root  154 20 3004K 1060K sleep  0:02  0.03  0.03 /opt/dcelo
s0  1404 root  154 20 68K 156K sleep  0:00  0.00  0.00 rlogind
?[7C77 root  127 20 24K 64K sleep  0:01  0.00  0.00 /etc/synce
?[8C1 root  168 20 216K 68K sleep  0:00  0.00  0.00 init
?[6C177 lp[6C154 20 116K 168K sleep  0:00  0.00  0.00 lpsched
?[5C1079 root  154 20 4496K 380K sleep  0:00  0.00  0.00 /usr/vue/b
?[5C1078 root  156 20 148K 56K sleep  0:00  0.00  0.00 /etc/getty
?[8C6 root  152 20[5C0K  0K sleep  0:00  0.00  0.00 sockregd
?[7C88 root  127 20 56K 80K sleep  0:00  0.00  0.00 /etc/nctl_
?[7C10 root  152 20[5C0K  0K sleep  0:00  0.00  0.00 syncdaemon
?[8C7 root  128 20[5C0K  0K sleep  0:00  0.00  0.00 unhashdaem
?[8C0 root  128 20[5C0K  0K sleep  0:05  0.00  0.00 swapper
```

?[8C2 root 128 20[5C0K 0K sleep 0:00 0.00 0.00 vhand
?[8C3 root 128 20[5C0K 0K sleep 0:00 0.00 0.00 statdaemon
?[6C143 root 154 20 80K 148K sleep 0:00 0.00 0.00 /etc/inetd
?[6C120 root 154 20 208K 72K sleep 0:00 0.00 0.00 /etc/ypbin
?[6C109 root 154 20 24K 88K sleep 0:00 0.00 0.00 /etc/rbda
?[6C107 root 127 20 424K 248K sleep 0:00 0.00 0.00 /etc/netfm
?[7C90 root 127 20 40K 96K sleep 0:00 0.00 0.00 /etc/ntl_r
?[6C132 root 154 20[5C0K 12K sleep 0:00 0.00 0.00 /etc/biod
?[6C166 root 154 20 340K 348K sleep 0:00 0.00 0.00 /etc/snmpd
?[6C181 root 154 20 84K 144K sleep 0:00 0.00 0.00 /etc/cron
?[6C140 root 154 20 188K 188K sleep 0:00 0.00 0.00 /usr/etc/r
?[6C138 root 154 20 92K 136K sleep 0:00 0.00 0.00 /usr/etc/r
?[6C136 root 154 20 88K 116K sleep 0:00 0.00 0.00 /etc/pcnfs
?[6C133 root 154 20[5C0K 12K sleep 0:00 0.00 0.00 /etc/biod
?[6C130 root 154 20[5C0K 12K sleep 0:00 0.00 0.00 /etc/biod
?[6C131 root 154 20[5C0K 12K sleep 0:00 0.00 0.00 /etc/biod
?[6C183 root 155 20 56K 124K sleep 0:00 0.00 0.00 /etc/ptyda
?[6C289 root 168 20 624K 740K sleep 0:00 0.00 0.00 MEMLOGP M
?[5C1119 daemon 154 20 148K 44K sleep 0:00 0.00 0.00 grmd
?[6C755 root 154 20 352K 216K sleep 0:00 0.00 0.00 /usr/atria

```
?[5C1080 daemon 154 20 3992K 1548K sleep 0:04 0.00 0.00 /usr/bin/X  
?[5C1491 mmolinet 154 20 120K 252K sleep 0:00 0.00 0.00 xclock -na?
```

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

```
*****  
COLUMNS=84  
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum  
EDITOR=vi  
HOME=/home/mmolinet  
HOST=apalmer  
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib  
LINES=51  
LOGNAME=mmolinet  
MAIL=/usr/mail/mmolinet  
MANPATH=/usr/man:/usr/local/man  
MERCURY_ELMHOST=sim.hitc.com  
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner  
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner  
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
```

```
SHELL=/bin/csh  
TERM=xterm  
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim  
TZ=EST5EDT  
VISUAL=vi
```

SHELL VARIABLES AND THEIR VALUES:

```
*****
```

```
COLUMNS=84  
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim  
EDITOR=vi  
HOME=/home/mmolinet  
HOST=apalmer  
IFS=
```

```
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib  
LINES=51  
LOGNAME=mmolinet  
MAIL=/usr/mail/mmolinet
```

MAILCHECK=600
MANPATH=/usr/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local/bin:/usr/local/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
SHELL=/bin/csh
TERM=xterm
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
VISUAL=vi
platform=HP-UX
selection=1
testid=TC1_9_env

Test Case 1.9 (TC003.008) 9/26/95

/disk1/Ir1_IT/T1/TC1_9/TC1_9_log

This test is being run remotely via "rainman" from xterm in Rm. 2109C.

apalmer{mmolinet}1: cd /Ir1_IT

/Ir1_IT

apalmer{mmolinet}2: date

Tue Sep 26 09:41:13 EDT 1995

apalmer{mmolinet}3: dce_login it_admin

Enter Password:

apalmer{mmolinet}32: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/it_admin

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 000007e1-f35b-21ce-ac00-0800094e7c5b it_admin

Group: 00000080-e933-21ce-9101-0800094e7c5b IR1

Local Groups:

00000080-e933-21ce-9101-0800094e7c5b IR1

00000078-e924-21ce-9601-0800094e7c5b acct-admin

00000079-e924-21ce-9601-0800094e7c5b subsys/dce/sec-admin

0000007a-e924-21ce-9601-0800094e7c5b subsys/dce/cds-admin

0000007b-e924-21ce-9601-0800094e7c5b subsys/dce/dts-admin

Identity Info Expires: 95/09/26:19:41:32

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_05951100

Default principal: it_admin@ecscell.hitc.com

Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/26:09:41:32 to 95/09/26:19:41:32

Server: dce-rgy@ecscell.hitc.com

valid 95/09/26:09:41:37 to 95/09/26:19:41:32

Server: dce-ptgt@ecscell.hitc.com

valid 95/09/26:09:41:40 to 95/09/26:11:41:40

Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/26:09:41:40 to 95/09/26:11:41:40

Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com

valid 95/09/26:09:41:40 to 95/09/26:11:41:40

apalmer{mmolinet}33: kinit -l 1 it_admin

Enter password:

apalmer{mmolinet}34: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/it_admin

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 000007e1-f35b-21ce-ac00-0800094e7c5b it_admin

Group: 00000080-e933-21ce-9101-0800094e7c5b IR1

Local Groups:

00000080-e933-21ce-9101-0800094e7c5b IR1

00000078-e924-21ce-9601-0800094e7c5b acct-admin

00000079-e924-21ce-9601-0800094e7c5b subsys/dce/sec-admin

0000007a-e924-21ce-9601-0800094e7c5b subsys/dce/cds-admin

0000007b-e924-21ce-9601-0800094e7c5b subsys/dce/dts-admin

Identity Info Expires: 95/09/26:19:41:32

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_05951100

Default principal: it_admin@ecscell.hitc.com

Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/26:09:42:47 to 95/09/26:10:42:47

Server: dce-ptgt@ecscell.hitc.com

valid 95/09/26:09:43:29 to 95/09/26:10:42:47

Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/26:09:43:29 to 95/09/26:10:42:47

Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com

valid 95/09/26:09:43:29 to 95/09/26:10:42:47

apalmer{mmolinet}39: date

Tue Sep 26 10:43:16 EDT 1995

apalmer{mmolinet}40: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/it_admin

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 000007e1-f35b-21ce-ac00-0800094e7c5b it_admin

Group: 00000080-e933-21ce-9101-0800094e7c5b <group name unknown>

Local Groups:

```
00000080-e933-21ce-9101-0800094e7c5b <group name unknown>
00000078-e924-21ce-9601-0800094e7c5b <group name unknown>
00000079-e924-21ce-9601-0800094e7c5b <group name unknown>
0000007a-e924-21ce-9601-0800094e7c5b <group name unknown>
0000007b-e924-21ce-9601-0800094e7c5b <group name unknown>
```

Identity Info Expires: 95/09/26:19:41:32

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_05951100

Default principal: it_admin@ecscell.hitc.com

apalmer{mmolinet}41: rgy_edit

?(rgy_edit) Warning - binding is not authenticated - Cant establish authentication to registry (Registry Edit Kernel) (dce / sad)

rgy_edit=> do a

Domain changed to: account

rgy_edit=> v mmolinet

mmolinet [IR1 HAIS]:*:2100:128:Mike Molinet (HAIS):/home/mmolinet:/bin/csh:

```
rgy_edit=> c -p mmolinet -g IR1 -o HAIS -pw TC1_9_log -mp it_!admin  
?(rgy_edit) Change was not complete - Unable to change password (dce / sad)  
?(rgy_edit) Underlying cause was - Cant establish authentication to security server (dce / sec)  
rgy_edit=> exit  
bye.
```

apalmer{mmolinet}44: date

Tue Sep 26 10:59:08 EDT 1995

apalmer{mmolinet}45: dce_login it_admin

Enter Password:

apalmer{mmolinet}36: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/it_admin

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 000007e1-f35b-21ce-ac00-0800094e7c5b it_admin

Group: 00000080-e933-21ce-9101-0800094e7c5b IR1

Local Groups:

00000080-e933-21ce-9101-0800094e7c5b IR1

00000078-e924-21ce-9601-0800094e7c5b acct-admin

00000079-e924-21ce-9601-0800094e7c5b subsys/dce/sec-admin

0000007a-e924-21ce-9601-0800094e7c5b subsys/dce/cds-admin

0000007b-e924-21ce-9601-0800094e7c5b subsys/dce/dts-admin

Identity Info Expires: 95/09/26:20:59:10

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_06914300

Default principal: it_admin@ecscell.hitc.com

Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/26:10:59:10 to 95/09/26:20:59:10

Server: dce-rgy@ecscell.hitc.com

valid 95/09/26:10:59:15 to 95/09/26:20:59:10

Server: dce-ptgt@ecscell.hitc.com

valid 95/09/26:10:59:20 to 95/09/26:12:59:20

Client: dce-ptgt@ecscell.hitc.com Server: krbtgt/ecscell.hitc.com@ecscell.hitc.com

valid 95/09/26:10:59:20 to 95/09/26:12:59:20

Client: dce-ptgt@ecscell.hitc.com Server: dce-rgy@ecscell.hitc.com

valid 95/09/26:10:59:20 to 95/09/26:12:59:20

apalmer{mmolinet}37: kdestroy

apalmer{mmolinet}38: exit

apalmer{mmolinet}39: apalmer{mmolinet}46: klist

DCE Identity Information:

Warning: Identity information is not certified

Global Principal: /.../ecscell.hitc.com/it_admin

Cell: c64ff19c-e924-11ce-9a59-0800094e7c5b /.../ecscell.hitc.com

Principal: 000007e1-f35b-21ce-ac00-0800094e7c5b it_admin

Group: 00000080-e933-21ce-9101-0800094e7c5b <group name unknown>

Local Groups:

00000080-e933-21ce-9101-0800094e7c5b <group name unknown>

00000078-e924-21ce-9601-0800094e7c5b <group name unknown>

00000079-e924-21ce-9601-0800094e7c5b <group name unknown>

0000007a-e924-21ce-9601-0800094e7c5b <group name unknown>

0000007b-e924-21ce-9601-0800094e7c5b <group name unknown>

Identity Info Expires: 95/09/26:19:41:32

Account Expires: never

Passwd Expires: never

Kerberos Ticket Information:

Ticket cache: /opt/dcelocal/var/security/creds/dcecred_05951100

Default principal: it_admin@ecscell.hitc.com

apalmer{mmolinet}47: kdestroy

apalmer{mmolinet}48: klist

No DCE identity available: No currently established network identity for which context exists (dce / sec)

Kerberos Ticket Information:

klist: No credentials cache file found (dce / krb) while setting cache flags (ticket cache /opt/dcelocal/var/security/creds/dcecred_05951100)

apalmer{mmolinet}49: exit

apalmer{mmolinet}50: apalmer{mmolinet}4:

3.1.9.4 Recommendations and Conclusions

The test focus on valid user system privileges disallowed after ticket expiration.

3.1.10 Local Logons (rlogin)-Valid and Invalid (B01.01.01)

3.1.10.1 Test Summary

Test verifies that once connection to the system (H1) is established, a user is able to log onto another local host (H2), via basic LAN capabilities. All activity for each account is recorded in the history log file. Test verified that once connection to the system is established, a tester was able to log on to another local host. All activities are recorded in the log file. Sniffer/Analyzer was used to monitor the network traffic. See contents under test result for more detail.

3.1.10.2 Deviations (if applicable)

Test Inputs

Valid account names/passwords for H1 and H2. Invalid account names for H2. Valid account names but invalid passwords for H2.

Test Steps

Connection to H1 for valid account.

Connection to H2 for valid account, via rlogin from H1.

Exit H2.

Attempt reconnection to H2, via rlogin, for accounts with invalid account names or passwords.

View messages indicating incorrect rlogon to H2 for accounts with invalid account names or passwords.

Verify all activity is recorded in the History Log file.

Test Outputs

Connection to H2 is established for valid accounts, while connection to H2 is refused for invalid accounts. All activity by each account is recorded in the history log file, which is verified by the tester.

Success Criteria

The test will be deemed successful once the connections to H2 for the valid accounts are established and invalid attempts are denied.

Assumptions and Constraints

None.

3.1.10.3 Test Results

TEST LOG

Thread / Build Name:		Ir1 Infrastructure (T1)
Test Case Name:	Local Logons	
Test Case ID:	TC 1.10 (B01.01.01)	
Test Location:	EDF	DAAC:
S/W Config./ Version:	See /Ir1_IT/T1/TC1_10/TC1_10_env1 & TC1_10_env2 on dps3sunedf.	
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_10/TC1_10_env1 & TC1_10_env2 on dps3sunedf.	
Test Data:	N/A	
Test Tools/ Scripts:	Logic Analyzer/Sniffer	
Test Date : 9/27/95	Test Time: 9:00 AM	Tester(s): Mike Molinet/Ping Chang

Witness(es): N/A

Comments: Test ran smoothly. Unix passwords transmitted openly when remotely logged in. Transmitted frames captured on sniffer/analyzer

(tc1_10a.enc on 3.5" diskette in Ethernet compressed data format). See vi test log (/Ir1_IT/T1/TC1_10/TC1_10_log on dps3sunedf).

NCRs Written:

0

NCRs Verified:

N/A

N C R s U n -
Verified:

N/A

Pass	Fail	Partial Pass/Fail	
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_10_env1

Date/Time: Tue Sep 26 17:35:15 EDT 1995

TEST CONDUCTOR: pchang

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

HP-UX apalmer A.09.05 A 9000/755 2011913188 two-user license

LIST OF ACTIVE PROCESSES:

pchang 3674 3672 0 17:35:16 ttys0 0:00 /bin/sh env3

pchang 3664 3651 5 17:34:54 ttys0 0:00 /bin/sh env3

```
pchang 3673 3672 3 17:35:15 ttys0 0:00 ps -edf  
pchang 3651 3650 0 17:34:36 ttys0 0:00 -csh  
pchang 3672 3664 1 17:35:15 ttys0 0:00 /bin/sh env3
```

```
&d@&a0y0CJRSystem: apalmer&a54CTue Sep 26 17:35:16 1995BLoad averages: 0.08, 0.09, 0.11B66 processes: 64 sleeping, 1 waiting, 1 startingBCpu  
states: 0.5% user, 0.0% nice, 0.4% system, 99.1% idle, 0.0% unk5, 0.0% Bunk6, 0.0% unk7, 0.0% unk8BMemory: 22032K (15196K) real, 39816K  
(32168K) virtual, 189768K free Screen # 1/5BBTTY PID USERNAME PRI NI SIZE RES STATE TIME %WCPU %CPU COMMANDDB? 1057  
root 154 20 5888K 1980K sleep 0:59 0.52 0.52 /opt/dceloBs0 3664 pchang 158 20 232K 96K sleep 0:00 0.44 0.30 /bin/sh enB?&a7C974  
root 154 10 4772K 1684K sleep 0:14 0.21 0.21 /opt/dceloB? 1080 daemon 154 20 4064K 1624K sleep 0:36 0.19 0.19 /usr/bin/XBs0 3651  
pchang 168 20 212K 160K sleep 0:00 0.15 0.14 -cshB?&a7C160 root 154 20 208K 252K sleep 0:11 0.11 0.11 /usr/etc/aBs0 3675 pchang  
178 20 272K 0K wait 0:00 2.00 0.10 top -d1Bp4 3621 mmolinet156 20 232K 176K sleep 0:00 0.08 0.07 cshBp5 3636 mmolinet168 20  
232K 176K sleep 0:00 0.08 0.07 cshB? 3635 mmolinet154 20 4596K 468K sleep 0:00 0.07 0.07 hptermB?&a7C117 root 154 20 180K 68K  
sleep 0:00 0.05 0.05 /etc/portmB?&a7C133 root 154 20 0K 12K sleep 0:00 0.05 0.05 /etc/biodB? 3620 mmolinet154 20 4596K 468K sleep  
0:00 0.04 0.04 hptermB?&a7C189 root 154 20 68K 136K sleep 0:00 0.03 0.03 /etc/sysloB? 1063 root 154 20 3340K 1320K sleep 0:30  
0.03 0.03 /opt/dcelo
```

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

```
*****
```

AB_CARDCATALOG=/home/ab/ab_cardcatalog

COLUMNS=80

HOME=/home/pchang

LD_LIBRARY_PATH=/opt/SUNWmotif/lib:/usr/openwin/lib

LINES=24

LOGNAME=pchang

MAIL=/var/spool/mail/pchang
MANPATH=/opt/SUNWspro/man:/usr/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MOTIFHOME=/opt/SUNWmotif
OPENWINHOME=/usr/openwin
PATH=.: /usr/bin /usr/etc /usr/etc/yp /usr/local/bin /etc /bin /usr/bsd /usr/sbin /usr/bin/X11 /usr/openwin/bin /usr/openwin/demo /usr/openwin/bin/xview /usr/atria /bin /usr/ccs/bin /usr/epoch/bin /usr/epoch/EB/bin /opt/SUNWspro/bin /opt/SUNWmotif/bin /opt/SUNWmotif/demo /opt/SoftWindows/bin /tools/bin /usr/ucb
SHELL=/bin/csh
SWINHOME=/opt/SoftWindows
TERM=hpterm
TZ=EST5EDT
UIDPATH=%U:/opt/SUNWmotif/lib/uid/%U
XFILESEARCHPATH=/usr/openwin/lib/app-defaults/%N:/opt/SUNWmotif/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

SHELL VARIABLES AND THEIR VALUES:

AB_CARDCATALOG=/home/ab/ab_cardcatalog
COLUMNS=80
HOME=/home/pchang
IFS=

LD_LIBRARY_PATH=/opt/SUNWmotif/lib:/usr/openwin/lib
LINES=24
LOGNAME=pchang
MAIL=/var/spool/mail/pchang
MAILCHECK=600
MANPATH=/opt/SUNWspro/man:/usr/man:/usr/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MOTIFHOME=/opt/SUNWmotif
OPENWINHOME=/usr/openwin
PATH=.:./usr/bin:/usr/etc:/usr/etc/yp:/usr/local/bin:/etc:/bin:/usr/bsd:/usr/sbin:/usr/bin/X11:/usr/openwin/bin:/usr/openwin/demo:/usr/openwin/bin/xview:/usr/atria
/bin:/usr/ccs/bin:/usr/epoch/bin:/usr/epoch/EB/bin:/opt/SUNWspro/bin:/opt/SUNWmotif/bin:/opt/SUNWmotif/demo:/opt/SoftWindows/bin:/tools/bin:/usr/ucb
SHELL=/bin/csh
SWINHOME=/opt/SoftWindows
TERM=hpterm
TZ=EST5EDT
UIDPATH=%U:/opt/SUNWmotif/lib/uid/%U
XFILESEARCHPATH=/usr/openwin/lib/app-defaults/%N:/opt/SUNWmotif/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
platform=HP-UX
selection=1
testid=TC1_10_env1

TEST CASE IDENTIFICATION: TC1_10_env2

Date/Time: Tue Sep 26 17:44:58 EDT 1995

TEST CONDUCTOR: pchang

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

IRIX norman 5.3 11091812 IP22 mips

LIST OF ACTIVE PROCESSES:

```
pchang 622 621 0 17:44:24 pts/2 0:00 -csh
pchang 636 622 0 17:44:41 pts/2 0:00 /bin/sh env3
pchang 644 636 2 17:44:59 pts/2 0:00 grep pchang
pchang 645 644 21 17:44:59 pts/2 0:00 ps -edf
```

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

```
*****
AB_CARDCATALOG=/home/ab/ab_cardcatalog
COLUMNS=80
DISPLAY=norman:0.0
HOME=/home/pchang
HZ=100
LANG=C
LD_LIBRARY_PATH=/opt/SUNWmotif/lib:/usr/openwin/lib
LINES=24
LOGNAME=pchang
MAIL=/var/spool/mail/pchang
MANPATH=/opt/SUNWspro/man:/usr/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MOTIFHOME=/opt/SUNWmotif
MSGVERB=text:action
NOMSGLABEL=1
NOMSGSEVERITY=1
OPENWINHOME=/usr/openwin
PATH=.: /usr/bin /usr/etc /usr/etc/yp /usr/local/bin /etc /bin /usr/bsd /usr/sbin /usr/bin/X11 /usr/openwin/bin /usr/openwin/demo /usr/openwin/bin/xview /usr/atria /bin /usr/ccs/bin /usr/epoch/bin /usr/epoch/EB/bin /opt/SUNWspro/bin /opt/SUNWmotif/bin /opt/SUNWmotif/demo /opt/SoftWindows/bin /tools/bin /usr/ucb
PWD=/tmp_mnt/home/pchang/pchang
```

REMOTEHOST=norman
REMOTEUSER=UNKNOWN
SHELL=/bin/csh
SWINHOME=/opt/SoftWindows
TERM=xterm
TZ=EST5EDT
UIDPATH=%U:/opt/SUNWmotif/lib/uid/%U
USER=pchang
XFILESEARCHPATH=/usr/openwin/lib/app-defaults/%N:/opt/SUNWmotif/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

SHELL VARIABLES AND THEIR VALUES:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

COLUMNS=80

DISPLAY=norman:0.0

HOME=/home/pchang

HZ=100

IFS=

LANG=C

LD_LIBRARY_PATH=/opt/SUNWmotif/lib:/usr/openwin/lib

LINES=24

LOGNAME=pchang

MAIL=/var/spool/mail/pchang

MAILCHECK=600

MANPATH=/opt/SUNWspro/man:/usr/man:/usr/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man

MOTIFHOME=/opt/SUNWmotif

MSGVERB=text:action

NOMSGLABEL=1

NOMSGSEVERITY=1
OPENWINHOME=/usr/openwin
OPTIND=1
PATH=.::/usr/bin:/usr/etc:/usr/etc/yp:/usr/local/bin:/etc:/bin:/usr/bsd:/usr/sbin:/usr/bin/X11:/usr/openwin/bin:/usr/openwin/demo:/usr/openwin/bin/xview:/usr/atria
/bin:/usr/ccs/bin:/usr/epoch/bin:/usr/epoch/EB/bin:/opt/SUNWspro/bin:/opt/SUNWmotif/bin:/opt/SUNWmotif/demo:/opt/SoftWindows/bin:/tools/bin:/usr/ucb
PWD=/tmp_mnt/home/pchang/pchang
REMOTEHOST=norman
REMOTEUSER=UNKNOWN
SHELL=/bin/csh
SWINHOME=/opt/SoftWindows
TERM=xterm
TZ=EST5EDT
UIDPATH=%U:/opt/SUNWmotif/lib/uid/%U
USER=pchang
XFILESEARCHPATH=/usr/openwin/lib/app-defaults/%N:/opt/SUNWmotif/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
platform=IRIX
selection=1
testid=TC1_10_env2

/disk1/Ir1_IT/T1/TC1_10/TC1_10_log

This test is being run directly on apalmer.

apalmer{mmolinet}88: cd /Ir1_IT

/Ir1_IT

apalmer{mmolinet}89: rlogin norman

Password:

IRIX Release 5.3 IP22 norman

Copyright 1987-1994 Silicon Graphics, Inc. All Rights Reserved.

Last login: Tue Sep 26 17:15:25 EDT 1995 by mmolinet@apalmer.HITC.COM

Operating System: IRIX

#####

10:32am up 17 hrs, 1 user, load average: 0.94, 0.43, 0.17

User tty from login@ idle JCPU PCPU what

mmolinet q0 apalmer.HITC.C 10:32am sort

#####

norman{mmolinet}88:

apalmer{mmolinet}78: pwd

/Ir1_IT

apalmer{mmolinet}79: su pchang

Password:

% pwd

/disk1/Ir1

% rlogin norman

Password:

UX:login: ERROR: Login incorrect

login: pchang

Password:

IRIX Release 5.3 IP22 norman

Copyright 1987-1994 Silicon Graphics, Inc. All Rights Reserved.

Last login: Tue Sep 26 17:44:34 EDT 1995 by UNKNOWN@norman

No match

norman{pchang}1: exit

norman{pchang}2: logout

Connection closed.

%

norman{mmolinet}88: exit

norman{mmolinet}89: logout

Connection closed.

apalmer{mmolinet}90:

apalmer{mmolinet}90: rlogin norman -l BobDole

Password:

UX:login: ERROR: Login incorrect

login: Connection closed.

apalmer{mmolinet}91: rlogin norman

Password:

UX:login: ERROR: Login incorrect

login: Connection closed.

apalmer{mmolinet}92:

3.1.10.4 Recommendations and Conclusions

Unix passwords transmitted openly when remotely logged in.

3.1.11 Remote Logons (Telnet H1-H2-H3) - Valid and Invalid (B01.01.02)

3.1.11.1 Test Summary

This test verifies that once connection to the system (H1), or to any other local host (H2), is established, a tester is able to log on to a remote host (H3), via basic WAN capabilities. All activity for the account is recorded in the history log file. Sniffer/Analyzer was used to monitor the network traffic. See test result for more detail.

3.1.11.2 Deviations (if applicable)

Test Inputs

Valid account names/passwords for H1, H2, and H3. Invalid account names for H3. Valid account names but invalid passwords for H3.

Test Steps

Connection to H1 for valid account.

Connection to H2 for valid account, via rlogin from H1.

Connection to H3 for valid account, via telnet from H2.

Exit H3.

Attempt reconnection to H3, via telnet, for accounts with invalid account names or passwords.

View messages indicating incorrect telnet to H3 for accounts with invalid account names or passwords.

Verify all activity is recorded in the History Log file.

Test Outputs

Connection to H3 is established for valid accounts, while connection to H3 is refused for invalid accounts. The remote login to H2 from H1 should remain connected. All activity by each account is recorded in the history log file, which is verified by the tester.

Success Criteria

The test will be deemed successful once the connections to H3 for the valid accounts are established and invalid attempts are denied.

Assumptions and Constraints

None.

3.1.11.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	Remote Logons (H1-H2-H3)
Test Case ID:	TC 1.11 (B01.01.02)
Test Location:	EDF DAAC:
S/W Config./ Version:	See /Ir1_IT/T1/TC1_11/TC1_11_env on dps3sunedf.
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_11/TC1_11_env on dps3sunedf.

Test Data:	N/A	
Test Tools/ Scripts:	Logic Analyzer/Sniffer	
Test Date: 9/27/95	Test Time: 4:00 PM	Tester(s): Mike Molinet
Witness(es): N/A		
Comments: Test ran smoothly. Unix passwords transmitted openly when remotely logged in (rlogin & telnet). Transmitted frames captured on sniffer/analyzer (tc1_11.enc on 3.5" diskette in Ethernet compressed data format). See vi test log (/Ir1_IT/T1/TC1_11/TC1_11_log on dps3sunedf).		

NCRs Written:	0			
NCRs Verified:	N/A			
N C R s U n - Verified:	N/A			
	Pass	Fail	Partial Pass/Fail	
1st Run	Formal Run	Retest	Release	

Also see the environment files for TC 1.10, as the actual testing will be done on apalmer, with a rlogin to norman. A telnet will then be done to rainman.

TEST CASE IDENTIFICATION: TC1_11_env

Date/Time: Wed Sep 27 15:46:26 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

SunOS rainman 5.4 Generic_101945-32 sun4m sparc

LIST OF ACTIVE PROCESSES:

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim

EDITOR=vi

HOME=/home/mmolinet

HOST=rainman

HZ=100

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LOGNAME=mmolinet

MAIL=/var/mail/mmolinet

MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man

MERCURY_ELMHOST=sim.hitc.com

MOTIFHOME=/opt/SUNWmotif

M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
OPENWINHOME=/usr/openwin
PATH=.:./home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consimm:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
PWD=/home/mmolinet/Misc
SHELL=/bin/csh
TERM=unknown
TERMCAP=su|dumb|un|unknown:am:co#80:do=^J:
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=US/Eastern
USER=mmolinet
VISUAL=vi
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

SHELL VARIABLES AND THEIR VALUES:

AB_CARDATALOG=/home/ab/ab_cardcatalog
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consimm

EDITOR=vi
HOME=/home/mmolinet
HOST=rainman
HZ=100
IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/mail/mmolinet
MAILCHECK=600
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/Irunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
OPENWINHOME=/usr/openwin
OPTIND=1
PATH=.:./home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/Irunner/bin:/net/sim.hitc.com/data/tools/QA/Irunner/samples/lrbin
PWD=/home/mmolinet/Misc

SHELL=/bin/csh
TERM=unknown
TERMCAP=su|dumb|un|unknown:am:co#80:do=^J:
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=US/Eastern
USER=mmolinet
VISUAL=vi
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
platform=SunOS
selection=1
testid=TC1_11_env

Test Case 1.11 (B01.01.02) 9/27/95
/disk1/Ir1_IT/T1/TC1_11/TC1_11_log

This test is being run directly on apalmer.

apalmer{mmolinet}101: rlogin norman
Password:
IRIX Release 5.3 IP22 norman
Copyright 1987-1994 Silicon Graphics, Inc. All Rights Reserved.
Last login: Wed Sep 27 10:32:01 EDT 1995 by mmolinet@apalmer.HITC.COM

Operating System: IRIX

```
#####
#
```

4:49pm up 23:18, 1 user, load average: 0.06, 0.01, 0.00

User tty from login@ idle JCPU PCPU what
mmolinet q0 apalmer.HITC.C 4:49pm w

```
#####
#
```

norman{mmolinet}85: telnet rainman

Trying 155.157.113.88...

Connected to rainman.HITC.COM.

Escape character is '^]'.

UNIX(r) System V Release 4.0 (rainman)

login: mmolinet

Password:

Last login: Wed Sep 27 15:24:39 from apalmer.HITC.COM

```
*****
*
```

NOTICE

THIS SYSTEM IS FOR USE OF AUTHORIZED USERS ONLY. ALL ACTIVITIES
ON THIS SYSTEM ARE MONITORED AND RECORDED BY SYSTEM PERSONNEL.
ANYONE USING THIS SYSTEM EXPRESSLY CONSENTS TO SUCH MONITORING
AND IS ADVISED THAT IF SUCH MONITORING REVEALS POSSIBLE EVIDENCE
OF CRIMINAL ACTIVITY, SYSTEM PERSONNEL MAY PROVIDE THE EVIDENCE
OF SUCH MONITORING TO LAW ENFORCEMENT OFFICIALS.

Type hpterm unknown

TERM = (unknown)

rainman{mmolinet}85: exit

rainman{mmolinet}86: logout

Connection closed by foreign host.

norman{mmolinet}86: exit

norman{mmolinet}87: logout

Connection closed.

apalmer{mmolinet}102:

apalmer{mmolinet}102: rlogin norman

Password:

IRIX Release 5.3 IP22 norman

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Last login: Wed Sep 27 16:49:55 EDT 1995 by mmolinet@apalmer.HITC.COM
Operating System: IRIX

#####

4:56pm up 23:24, 1 user, load average: 0.81, 0.29, 0.10
User tty from login@ idle JCPU PCPU what
mmolinet q0 apalmer.HITC.C 4:56pm w

#####

norman{mmolinet}87: telnet rainman
Trying 155.157.113.88...
Connected to rainman.HITC.COM.
Escape character is '^]'.

UNIX(r) System V Release 4.0 (rainman)

login: wrongID
Password:
Login incorrect
login: mmolinet

Password:

Login incorrect

login: Connection closed by foreign host.

norman{mmolinet}88: exit

norman{mmolinet}89: logout

Connection closed.

apalmer{mmolinet}103:

apalmer{mmolinet}103: telnet rainman

Trying...

Connected to rainman.hitc.com.

Escape character is '^]'.

UNIX(r) System V Release 4.0 (rainman)

login: mmolinet

Password:

Login incorrect

login: wrongID

Password:

Login incorrect

login: mmolinet

Password:

Last login: Wed Sep 27 16:51:53 from norman.HITC.COM

NOTICE

THIS SYSTEM IS FOR USE OF AUTHORIZED USERS ONLY. ALL ACTIVITIES
ON THIS SYSTEM ARE MONITORED AND RECORDED BY SYSTEM PERSONNEL.
ANYONE USING THIS SYSTEM EXPRESSLY CONSENTS TO SUCH MONITORING
AND IS ADVISED THAT IF SUCH MONITORING REVEALS POSSIBLE EVIDENCE
OF CRIMINAL ACTIVITY, SYSTEM PERSONNEL MAY PROVIDE THE EVIDENCE
OF SUCH MONITORING TO LAW ENFORCEMENT OFFICIALS.

Type hpterm unknown

TERM = (unknown)

rainman{mmolinet}89: exit

rainman{mmolinet}90: logout

Connection closed by foreign host.

apalmer{mmolinet}104:

3.1.11.4 Recommendations and Conclusions

Use both "rlogin" and "telnet" to verify the WAN capabilities. All valid/invalid ID/Password conditions were tested. Unix passwords transmitted openly when remotely logged in (rlogin & telnet).

3.1.12 Remote Logons (Telnet H1-H3-H1) - Valid and Invalid (B01.01.03)

3.1.12..1 Test Summary

This test verifies that once a connection is made to a remote host (H3) from the local host (H1), a user is able to log back into the local host (H1), via basic WAN capabilities. This test verifies that connection into the LAN from the WAN is possible.

3.1.12..2 Deviations (if applicable)

Test Input

Valid account names/passwords for H1 and H3. Invalid account names for H1. Valid account names but invalid passwords for H1.

Test Steps

Connection to H1 for valid account.

Connection to H3 for valid account, via telnet from H1.

Exit H1 from H3.

Attempt reconnection to H1, via telnet, for accounts with invalid account names or passwords.

View messages indicating incorrect telnet to H1 for accounts with invalid account names or passwords.

Verify all activity is recorded in the History Log file.

Test Outputs

Connection to H1 is established for valid accounts, while connection to H1 is refused for invalid accounts. The telnet to H3 from H1 should remain connected. All activity by each account is recorded in the history log file, which is verified by the tester.

Success Criteria

The test will be deemed successful once the connections to H1, via H3, for the valid accounts are established and invalid attempts are denied.

Assumptions and Constraints

None.

3.1.12..3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	Remote Logons (Telnet H1-H3-H1)
Test Case ID:	TC 1.12 (B01.01.03)
Test Location:	EDF DAAC:
S/W Config./ Version:	See /Ir1_IT/T1/TC1_12/TC1_12_env1 & TC1_12_env2 on dps3sunedf.
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_12/TC1_12_env1 & TC1_12_env2 on dps3sunedf.
Test Data:	N/A

Test Tools/ Scripts:	Logic Analyzer/Sniffer	
Test Date: 9/28/95	Test Time: 10:00 AM	Tester(s): Mike Molinet
Witness(es): N/A		
Comments: Test ran smoothly. Transmitted frames captured on sniffer/analyizer (tc1_12.enc on 3.5" diskette in Ethernet compressed data format).		
See vi test log (/Ir1_IT/T1/TC1_12/TC1_12_log on dps3sunedf).		
NCRs Written:	0	

NCRs Verified:	N/A		
N C R s U n - Verified:	N/A		
Pass	Fail	Partial Pass/Fail	
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_12_env1

Date/Time: Thu Sep 28 14:05:27 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

IRIX norman 5.3 11091812 IP22 mips

LIST OF ACTIVE PROCESSES:

```
mmolinet 609 608 27 14:05:27 pts/1 0:00 ps -edf
mmolinet 537 533 0          0:00 <defunct>
mmolinet 608 600 1 14:05:27 pts/1 0:00 grep mmolinet
mmolinet 600 567 1 14:05:17 pts/1 0:00 /bin/sh env3
mmolinet 533 514 0 14:04:32 ? 0:00 /bin/sh /home/mmolinet/.xsession
mmolinet 564 533 0 14:04:35 ? 0:00 mwm
mmolinet 559 533 0 14:04:35 ? 0:00 xterm -T /home/mmolinet -n /home/mmolinet -ls -rw -geometry 80x24+0-160
mmolinet 560 533 0 14:04:35 ? 0:00 xclock -geometry -0+0
mmolinet 567 559 0 14:04:36 pts/1 0:00 -csh
```

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim

DISPLAY=:0.0

EDITOR=vi

HOME=/home/mmolinet

HOST=norman

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MANPATH=/usr/atria/doc/man
MERCURY_ELMHOST=sim.hitc.com
MSGVERB=text:action
M_LROOT=/net/sim.hitc.com/data/tools/QA/Irunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOMSGLABEL=1
NOMSGSEVERITY=1
PATH=.:./home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/usr/bsd:/usr/etc:/usr/catman:/usr/man:/usr/lib:/usr/lib/X11:/usr/local/man:/bin:/usr/ucb:/usr/bin:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/Irunner/bin:/net/sim.hitc.com/data/tools/QA/Irunner/samples/Irbin:/usr/atria/bin
PWD=/Ir1_IT
REMOTEDIPLAY=norman:0.0
SHELL=/bin/csh
TERM=xterm
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
USER=mmolinet

VISUAL=vi

WINDOWID=29360141

SHELL VARIABLES AND THEIR VALUES:

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim

DISPLAY=:0.0

EDITOR=vi

HOME=/home/mmolinet

HOST=norman

IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LOGNAME=mmolinet

MAIL=/var/spool/mail/mmolinet

MAILCHECK=600

MANPATH=/usr/atria/doc/man

MERCURY_ELMHOST=sim.hitc.com

MSGVERB=text:action

M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOMSGLABEL=1
NOMSGSEVERITY=1
OPTIND=1
PATH=.:./home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/usr/bsd:/usr/etc:/usr/catman:/usr/man:/usr/lib:/usr/lib/X11:/usr/local/man:/bin:/usr/ucb:/usr/bin:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/usr/atria/bin
PWD=/lr1_IT
REMOTEDIPLAY=norman:0.0
SHELL=/bin/csh
TERM=xterm
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
USER=mmolinet
VISUAL=vi
WINDOWID=29360141
platform=IRIX
selection=1
testid=TC1_12_env1

TEST CASE IDENTIFICATION: TC1_12_env2

Date/Time: Thu Sep 28 11:02:28 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

SunOS rainman 5.4 Generic_101945-32 sun4m sparc

LIST OF ACTIVE PROCESSES:

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim
EDITOR=vi
HOME=/home/mmolinet
HOST=rainman
HZ=100
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/mail/mmolinet
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
OPENWINHOME=/usr/openwin
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consim:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/ado/be:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
PWD=/home/mmolinet/Misc
SHELL=/bin/csh
TERM=unknown

```
TERMCAP=su|dumb|un|unknown:am:co#80:do=^J:  
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim  
TZ=US/Eastern  
USER=mmolinet  
VISUAL=vi  
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
```

SHELL VARIABLES AND THEIR VALUES:

```
*****
```

```
AB_CARDCATALOG=/home/ab/ab_cardcatalog  
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum  
EDITOR=vi  
HOME=/home/mmolinet  
HOST=rainman  
HZ=100  
IFS=
```

```
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib  
LOGNAME=mmolinet
```

MAIL=/var/mail/mmolinet
MAILCHECK=600
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
OPENWINHOME=/usr/openwin
OPTIND=1
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/ado/be:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
PWD=/home/mmolinet/Misc
SHELL=/bin/csh
TERM=unknown
TERMCAP=su|dumb|un|unknown:am:co#80:do=^J:
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=US/Eastern
USER=mmolinet
VISUAL=vi

XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
platform=SunOS
selection=1
testid=TC1_12_env2

Test Case 1.12 (B01.01.03) 9/28/95

/disk1/Ir1_IT/T1/TC1_12/TC1_12_log

This test is being run directly on norman.

H1 (local host)=norman (SGI)

H3 (remote host)=rainman (Sun)

A (valid account)=mmolinet

Good A logon to H1, good A telnet to H3, attempt telnet A
back to H1 w/ valid ID & invalid password, w/ invalid ID &
valid password, w/ valid ID & password.

Traffic between H1 & H3 captured on Network Analyzer/Sniffer.

Passwords are not secure & are not required to be at this point.

Data (tc1_12.enc) and setup (tc1_12.ens) saved on 3.5" floppy.

norman{mmolinet}60: pwd

/Ir1_IT

norman{mmolinet}61: telnet rainman

Trying 155.157.113.88...

Connected to rainman.HITC.COM.

Escape character is '^]'.

UNIX(r) System V Release 4.0 (rainman)

login: mmolinet

Password:

Last login: Thu Sep 28 14:36:11 from norman.HITC.COM

NOTICE

THIS SYSTEM IS FOR USE OF AUTHORIZED USERS ONLY. ALL ACTIVITIES
ON THIS SYSTEM ARE MONITORED AND RECORDED BY SYSTEM PERSONNEL.
ANYONE USING THIS SYSTEM EXPRESSLY CONSENTS TO SUCH MONITORING

AND IS ADVISED THAT IF SUCH MONITORING REVEALS POSSIBLE EVIDENCE
OF CRIMINAL ACTIVITY, SYSTEM PERSONNEL MAY PROVIDE THE EVIDENCE
OF SUCH MONITORING TO LAW ENFORCEMENT OFFICIALS.

Fork failed

rainman% pwd

/home/mmolinet

rainman% telnet norman

Trying 155.157.117.32 ...

Connected to norman.HITC.COM.

Escape character is '^]'.

IRIX System V.4 (norman)

login: mmolinet

Password:

UX:login: ERROR: Login incorrect

login: falseID

Password:

UX:login: ERROR: Login incorrect

login: mmolinet

Password:

IRIX Release 5.3 IP22 norman

Copyright 1987-1994 Silicon Graphics, Inc. All Rights Reserved.

Last login: Thu Sep 28 11:51:07 EDT 1995 by mmolinet@apalmer.HITC.COM

Operating System: IRIX

#####

3:00pm up 57 mins, 3 users, load average: 0.16, 0.04, 0.01

User	tty	from	login@	idle	JCPU	PCPU	what
------	-----	------	--------	------	------	------	------

mmolinet	q0	:0.0		2:24pm			telnet rainman
----------	----	------	--	--------	--	--	----------------

mmolinet	q1	:0.0		2:38pm			vi TC1_12_log
----------	----	------	--	--------	--	--	---------------

mmolinet	q2	rainman.HITC.C	3:00pm	1		w	
----------	----	----------------	--------	---	--	---	--

#####

norman{mmolinet}79: pwd

```
/tmp_mnt/home/mmolinet  
norman{mmolinet}80: cd /Ir1_IT  
/Ir1_IT  
norman{mmolinet}81: exit  
norman{mmolinet}82: logout  
Connection closed by foreign host.  
rainman% exit  
rainman% logout  
Connection closed by foreign host.  
norman{mmolinet}62: pwd  
/Ir1_IT  
norman{mmolinet}63:
```

3.1.12.4 Recommendations and Conclusions

Use both "rlgoin" and "telnet" to verify that the connection from WAN to LAN .is possible. All valid/invalid ID/Password conditions were tested. Unix password transmitted openly when remotely logged in (rlogin & telnet).

3.1.13 Syntax and Commands Simplification (TC011.001)

3.1.13.1 Test Summary

This testcase verified that DCE related documents and commands which are used in Ir1 development environment are online. See contents under test result for more detail.

3.1.13.2 Deviations (if applicable)

The purpose of Syntax and Commands Simplification is to verify that the complex DCE syntax and commands have been incorporated into accessible objects.

Test Inputs

Inputs to this test case include use of the OODCE class libraries.

Test Steps

Verify that the OODCE class libraries exist.

Call the libraries.

Verify that the available objects are accessible.

Test Outputs

The expected results of this test include successful use of the OODCE class libraries.

Success Criteria

This test will be deemed successful when all of the OODCE class libraries have been accessed and the objects have been executed.

Assumptions and Constraints

None.

Test was run on a HP workstation which is normally used for development.

3.1.13.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
----------------------	--------------------------------

Test Case Name:	Syntax and Commands Simplification			
Test Case ID:	TC 1.13 (TC011.001)			
Test Location: EDF DAAC:				
S/W Config./ Version:	HP (Baltic development machine workstation)			
H/W Config./ Host Names:	HP (Baltic development machine workstation)			
Test Data:	N/A			
Test Tools/ Scripts:	N/A			
Test Date : 10/04/95	Test Time: 3:00 PM	Tester(s): Ping Chang		
Witness(es): N/A				
Comments: Inspection of online DCE related documents & commands went smoothly.				
See vi test log (/Ir1_IT/T1/TC1_13/TC1_13_log on dps3sunedf).				

NCRs Written:	0		
NCRs Verified:	N/A		
N C R s U n - Verified:	N/A		
Pass		Fail	Partial Pass/Fail
1st Run	Formal Run	Retest	Release

TestCase 1.13 Syntax and Commands Simplification Test:

This test is run directly on a development processor : Baltic on 10-4-95,
3 PM.

This test case mainly is to inspect DCE related documents, commands used by Ir1 development online. Therefore, logon to a development processor, such as Baltic, and go to appropriate directory to view the documents and commands.

/opt/dcelocal/hptools/doc/oodce to see the Programmer's Guide users_guide.ps.

/opt/dcelocal/usr/man then use "man <command>" to view the dce commands.

3.1.13.4 Recommendations and Conclusions

Inspection of online DCE related documents and commands were successful on the HP workstation.

3.1.14 Sample Object Implementation (TC011.002)

3.1.14.1 Test Summary

This test used a client/sever architecture to demonstrate an object created using OODCE code and then link the object to C++ bindings. See contents under test result for more detail.

3.1.14.2 Deviations (if applicable)

Test Inputs

Inputs to this test case include use of the OODCE class libraries.

Test Steps

Demonstrate an object that was created using OODCE class libraries.

Verify that the object can bind using C++.

Test Outputs

The expected results of this test include being able to pass objects using OODCE.

Success Criteria

This test will be deemed successful when all objects developed using OODCE can bind to the client/server architecture.

Test was run on a HP workstation which is normally used for development.

Assumptions and Constraints

None

3.1.14.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	Sample Object Implementation
Test Case ID:	TC 1.14 (TC011.002)
Test Location:	EDF DAAC:

S/W Config./ Version:	See /Ir1_IT/T1/TC1_14/TC1_14_env on dps3sunedf.		
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_14/TC1_14_env on dps3sunedf.		
Test Data:	N/A		
Test Tools/ Scripts:	N/A		
Test Date: 10/02/95	Test Time: 11:00 AM	Tester(s): Ping Chang	
Witness(es): N/A			
Comments: Test went smoothly. See vi test log (/Ir1_IT/T1/TC1_14/TC1_14_log on dps3sunedf).			

NCRs Written:	0		
NCRs Verified:	N/A		
NCRs Un-Verified:	N/A		
Pass		Fail	Partial Pass/Fail
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1.14

Date/Time: Mon Oct 2 11:18:15 EDT 1995

TEST CONDUCTOR: pchang

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

HP-UX baltic A.09.05 A 9000/715 2006328583 two-user license

LIST OF ACTIVE PROCESSES:

```
pchang 1527 532 0 11:16:17 ?      0:00 /usr/vue/bin/vuesession
pchang 1542 1541 0 11:16:44 ttyp3  0:00 csh
pchang 1301  1 0 10:39:42 ?      0:00 ./sleeper_server
pchang 1536  1 0 11:16:23 ttyp2  0:00 /usr/softbench/bin/softmsgsrv -bootfile /usr/softbench/confi
pchang 1541 1532 0 11:16:43 ?      0:00 hpterm
pchang 1532 1527 0 11:16:20 ?      0:04 vuewm
pchang 1546 1532 1 11:16:47 ?      0:00 hpterm
pchang 1539 1527 0 11:16:33 ?      0:00 xload -name vueload -nolabel -iconic -xrm vueload*primaryCol
root 1394 371 0 10:53:11 ?      0:00 /opt/dcelocal/bin/cdsclerk -U pchang -u 2347 -m 4
pchang 1547 1546 0 11:16:47 ttyp4  0:00 /bin/csh
pchang 1604 1594 6 11:18:16 ttyp4  0:00 grep pchang
pchang 1606 1604 15 11:18:16 ttyp4  0:00 ps -edf
```

```
pchang 1594 1547 10 11:18:00 ttyp4 0:00 /bin/sh env3
```

```
&d@&a0y0CJRSys: baltic&a54CMon Oct 2 11:18:17 1995BLoad averages: 2.47, 1.63, 1.51B103 processes: 102 sleeping, 1 waitingBCpu states:  
2.5% user, 0.0% nice, 1.6% system, 95.9% idle, 0.0% unk5, 0.0% Bunk6, 0.0% unk7, 0.0% unk8BMemory: 39196K (27700K) real, 61068K (50068K)  
virtual, 47076K free Screen #B1/7BBTTY PID USERNAME PRI NI SIZE RES STATE TIME %WCPU %CPU COMMANDB?&a7C375 root  
154 20 6004K 2536K sleep 0:59 2.84 2.84 /opt/dceloBp4 1594 pchang 158 20 236K 96K sleep 0:00 1.52 0.87 /bin/sh enB?&a7C339 root  
154 10 4788K 1620K sleep 0:20 0.75 0.75 /opt/dceloBs8 1608 ygeng 154 20 72K 0K sleep 0:00 14.00 0.68 quotaB? 1546 pchang 154 20  
4596K 468K sleep 0:00 0.60 0.59 hptermBp4 1547 pchang 168 20 212K 156K sleep 0:00 0.48 0.48 /bin/cshBs5 1140 myuan 154 20 1700K  
1608K sleep 0:13 0.47 0.47 cdsbrowserB?&a7C380 root 154 20 3580K 1132K sleep 0:10 0.37 0.37 /opt/dceloB?&a7C531 daemon 154 20  
3924K 1428K sleep 0:04 0.36 0.36 /usr/bin/XBs8 1586 ygeng 158 20 208K 68K sleep 0:00 0.46 0.33 login -h oB?&a8C77 root 127 20  
24K 64K sleep 0:19 0.29 0.29 /etc/synceB?&a7C170 root 154 20 196K 244K sleep 0:19 0.26 0.26 /usr/etc/aBs2 1551 ygeng 156 20 216K  
168K sleep 0:00 0.25 0.24 -cshB? 1126 root 154 20 2432K 1076K sleep 0:05 0.17 0.17 /opt/dceloB?&a7C119 root 154 20 232K 76K  
sleep 0:00 0.15 0.15 /etc/ypbin
```

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

```
*****
```

AB_CARDCATALOG=/home/ab/ab_cardcatalog

COLUMNS=80

DISPLAY=baltic:0.0

EDITOR=/usr/vue/bin/vuepad

HOME=/home/pchang

LD_LIBRARY_PATH=/opt/SUNWmotif/lib:/usr/openwin/lib

LINES=24

LOGNAME=pchang

MAIL=/var/spool/mail/pchang
MANPATH=/opt/SUNWspro/man:/usr/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MOTIFHOME=/opt/SUNWmotif
OPENWINHOME=/usr/openwin
PATH=.:./usr/bin:/usr/etc:/usr/etc/yp:/usr/local/bin:/etc/bin:/usr/bsd:/usr/sbin:/usr/bin/X11:/usr/openwin/bin:/usr/openwin/demo:/usr/openwin/bin/xview:/usr/atria/bin:/usr/ccs/bin:/usr/epoch/bin:/usr/epoch/EB/bin:/opt/SUNWspro/bin:/opt/SUNWmotif/bin:/opt/SUNWmotif/demo:/opt/SoftWindows/bin:/tools/bin:/usr/ucb
PWD=/tmp_mnt/home/pchang/pchang
SHELL=/bin/csh
SWINHOME=/opt/SoftWindows
TERM=hpterm
TZ=EST5EDT
UIDPATH=%U:/opt/SUNWmotif/lib/uid/%U
USER=pchang
WINDOWID=29360145
XFILESEARCHPATH=/usr/openwin/lib/app-defaults/%N:/opt/SUNWmotif/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

SHELL VARIABLES AND THEIR VALUES:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

COLUMNS=80
DISPLAY=baltic:0.0
EDITOR=/usr/vue/bin/vuepad
HOME=/home/pchang
IFS=

LD_LIBRARY_PATH=/opt/SUNWmotif/lib:/usr/openwin/lib
LINES=24
LOGNAME=pchang
MAIL=/var/spool/mail/pchang
MAILCHECK=600
MANPATH=/opt/SUNWspro/man:/usr/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MOTIFHOME=/opt/SUNWmotif
OPENWINHOME=/usr/openwin
PATH=.: /usr/bin /usr/etc /usr/etc/yp /usr/local/bin /etc /bin /usr/bsd /usr/sbin /usr/bin/X11 /usr/openwin/bin /usr/openwin/demo /usr/openwin/bin/xview /usr/atria /bin /usr/ccs/bin /usr/epoch/bin /usr/epoch/EB /bin /opt/SUNWspro/bin /opt/SUNWmotif/bin /opt/SUNWmotif/demo /opt/SoftWindows/bin /tools/bin /usr/ucb
PWD=/tmp_mnt/home/pchang/pchang
SHELL=/bin/csh
SWINHOME=/opt/SoftWindows
TERM=hpterm
TZ=EST5EDT

```
UIDPATH=%U:/opt/SUNWmotif/lib/uid/%U  
USER=pchang  
WINDOWID=29360145  
XFILESEARCHPATH=/usr/openwin/lib/app-defaults/%N:/opt/SUNWmotif/lib/%T/%N%S  
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings  
platform=HP-UX  
selection=1  
testid=TC1.14
```

Following are recorded test steps for Test Case 1.14 Sample Object

Implementation, test is running on Baltic with two hpterm:

10/02/95

/disk1/Ir1_IT/T1/TC1_14/TC1_14_log

This test is being run on a development machine Baltic.

```
Script started on Mon Oct 2 11:24:57 1995  
baltic{pchang}1: cd /opt/oodce/hpexamples/sleeper
```

```
/opt/oodce/hpexamples/sleeper  
baltic{pchang}2: ls  
Makefile client.c manager.c sleeper.idl  
README common.h server.c  
baltic{pchang}3: cp -R . /home/pchang/dce  
baltic{pchang}4: cd  
/home/pchang  
baltic{pchang}5: cd dce  
/home/pchang/dce  
baltic{pchang}6: ls -l  
total 152  
-r--r--r-- 1 pchang Ir1_IT 1223 Oct 2 11:31 Makefile  
-r--r--r-- 1 pchang Ir1_IT 7232 Oct 2 11:31 README  
-r--r--r-- 1 pchang Ir1_IT 9488 Oct 2 11:31 client.c  
-r--r--r-- 1 pchang Ir1_IT 1780 Oct 2 11:31 common.h  
-r--r--r-- 1 pchang Ir1_IT 1897 Oct 2 11:31 manager.c  
-r--r--r-- 1 pchang Ir1_IT 11952 Oct 2 11:31 server.c  
-r--r--r-- 1 pchang Ir1_IT 1408 Oct 2 11:31 sleeper.idl  
baltic{pchang}7: chmod 777 *  
baltic{pchang}8: ls -l
```

total 152

```
-rwxrwxrwx 1 pchang Ir1_IT 1223 Oct 2 11:31 Makefile
-rwxrwxrwx 1 pchang Ir1_IT 7232 Oct 2 11:31 README
-rwxrwxrwx 1 pchang Ir1_IT 9488 Oct 2 11:31 client.c
-rwxrwxrwx 1 pchang Ir1_IT 1780 Oct 2 11:31 common.h
-rwxrwxrwx 1 pchang Ir1_IT 1897 Oct 2 11:31 manager.c
-rwxrwxrwx 1 pchang Ir1_IT 11952 Oct 2 11:31 server.c
-rwxrwxrwx 1 pchang Ir1_IT 1408 Oct 2 11:31 sleeper.idl
```

baltic{pchang}9: make

```
idl -keep c_source -I. -I/usr/include/reentrant sleeper.idl
cc -Aa -D_POSIX_SOURCE -g -D_REENTRANT -DTRACING -I. -I/usr/include/reentrant -c sleeper_sstub.c
cc -Aa -D_POSIX_SOURCE -g -D_REENTRANT -DTRACING -I. -I/usr/include/reentrant -c manager.c
cc -Aa -D_POSIX_SOURCE -g -D_REENTRANT -DTRACING -I. -I/usr/include/reentrant -c server.c
cc -Aa -D_POSIX_SOURCE -g -D_REENTRANT -DTRACING -I. -I/usr/include/reentrant -c sleeper_cstub.c
cc -Aa -D_POSIX_SOURCE -g -D_REENTRANT -DTRACING -I. -I/usr/include/reentrant -c client.c
cc -g -Wl,-a,archive sleeper_sstub.o manager.o server.o -lbb -ldce -lm -lc_r -o sleeper_server
cc -g -Wl,-a,archive sleeper_cstub.o client.o -lbb -ldce -lm -lc_r -o sleeper_client
```

baltic{pchang}10: ls -l

total 19032

```
-rwxrwxrwx 1 pchang Ir1_IT 1223 Oct 2 11:31 Makefile
```

```
-rwxrwxrwx 1 pchang Ir1_IT    7232 Oct 2 11:31 README
-rwxrwxrwx 1 pchang Ir1_IT    9488 Oct 2 11:31 client.c
-rw-r--r-- 1 pchang Ir1_IT   21524 Oct 2 11:32 client.o
-rwxrwxrwx 1 pchang Ir1_IT   1780 Oct 2 11:31 common.h
-rwxrwxrwx 1 pchang Ir1_IT   1897 Oct 2 11:31 manager.c
-rw-r--r-- 1 pchang Ir1_IT   18444 Oct 2 11:32 manager.o
-rwxrwxrwx 1 pchang Ir1_IT   11952 Oct 2 11:31 server.c
-rw-r--r-- 1 pchang Ir1_IT   22328 Oct 2 11:32 server.o
-rw-r--r-- 1 pchang Ir1_IT    715 Oct 2 11:32 sleeper.h
-rwxrwxrwx 1 pchang Ir1_IT   1408 Oct 2 11:31 sleeper.idl
-rwxr-xr-x 1 pchang Ir1_IT 2330700 Oct 2 11:35 sleeper_client
-rw-r--r-- 1 pchang Ir1_IT   3621 Oct 2 11:32 sleeper_cstub.c
-rw-r--r-- 1 pchang Ir1_IT   31688 Oct 2 11:32 sleeper_cstub.o
-rwxr-xr-x 1 pchang Ir1_IT 2341716 Oct 2 11:33 sleeper_server
-rw-r--r-- 1 pchang Ir1_IT   4608 Oct 2 11:32 sleeper_sstub.c
-rw-r--r-- 1 pchang Ir1_IT   32764 Oct 2 11:32 sleeper_sstub.o
baltic{pchang}11: ./sleeper_server
```

11:30:20.4215 001 sleeper-1812 Bindings:

11:30:20.7419 001 sleeper-1812 ncadg_ip_udp:155.157.31.90[3195]

11:30:21.9326 001 sleeper-1812 Listening...

```
11:32:27.5375 00e sleeper-1812 Enter remote_sleep(1) manager  
11:32:28.5660 00e sleeper-1812 Return from remote_sleep(1) manager
```

```
baltic{pchang}12:  
script done on Mon Oct 2 11:34:15 1995
```

*** The following are recorded steps from the other hpterm :

```
baltic{pchang}1: cd dce  
/tmp_mnt/home/pchang/pchang/dce  
baltic{pchang}2: ./sleeper_client baltic 1^M  
11:32:25.8160 001 sleeper Bound to ip:baltic  
11:32:26.2118 001 sleeper Calling remote_sleep(1)  
11:32:28.7690 001 sleeper Returned from remote_sleep(1)
```

3.1.14.4 Recommendations and Conclusions

The Test demonstrated that an object could be created using OODCE class libraries and verified that the object can bind using C++ to the server architecture.

3.1.15 Logoffs - Normal (B01.02.01)

3.1.15.1 Test Summary

This test verified that when a tester, using a valid account, logs off a system or a host, the connection is properly closed to the system or the host.

3.1.15.2 Deviations (if applicable)

Test Inputs

Valid account names/passwords for H1, H2, and H3.

Test Steps

Valid user connects to the system on Host 1, rlogs onto a local host (Host 2), then telnets onto a remote host (Host 3).

Log off the remote host (Host 3), then the local host (Host 2), and finally Host 1.

In each instance, another tester, using another valid account, is monitoring the system on each host to verify that connection to the host has been closed for the initial user.

Verify that all logon and logoff activity is recorded in the history log file.

Test Outputs

Monitor data for the activity of initial user, history log file records that have corresponding logon and logoff records.

Success Criteria

Verify that connection is established for initial user on the different hosts upon login and terminated upon logout. History log files should have corresponding logon and logoff records.

Assumptions and Constraints

None.

None.

3.1.15.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)	
Test Case Name:	Logoffs - Normal	
Test Case ID:	TC 1.15 (B01.02.01)	
Test Location:	EDF	DAAC:
S/W Config./ Version:	See /Ir1_IT/T1/TC1_15/TC1_15_env on dps3sunedf.	
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_15/TC1_15_env on dps3sunedf.	
Test Data:	N/A	
Test Tools/ Scripts:	N/A	
Test Date: 10/02/95	Test Time: AM	Tester(s): Mike Molinet
Witness(es): N/A		
Comments: Test ran smoothly. See vi test log (/Ir1_IT/T1/TC1_15/TC1_15_log on dps3sunedf).		

NCRs Written:	0		
NCRs Verified:	N/A		
N C R s U n - Verified:	N/A		
Pass		Fail	Partial Pass/Fail
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_15_env

Date/Time: Mon Oct 2 11:28:23 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

SunOS nickalus 5.4 Generic_101945-27 sun4m sparc

LIST OF ACTIVE PROCESSES:

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum

DISPLAY=:0.0
DSQUERY=/data/sybase
EBTRC=/data/sybase/sybooks/sun4m/.ebtrc
EDITOR=vi
HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help
HOME=/home/mmolinet
HOST=nickalus
HZ=100
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:

/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/ado
be:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xr
unner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/data/sybase:/data/sybase/bin:/data/sybase/sybooks/
sun4m/bin

PWD=/lr1_IT

REMOTEDIPLAY=nickalus:0.0

SHELL=/bin/csh

SYBASE=/data/sybase

SYBROOT=/data/sybase/sybooks

TERM=vs100

TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[
%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m\E[2J
\E[H\E[?7h\E[?1;3;4;6l\E[4l\E<:k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=\^H:kd=\EOB:ke=\E[?1l\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#
65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:sc=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E
[m:xn:

TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim

TZ=US/Eastern

USER=mmolinet

VISUAL=vi

WINDOWID=12582925

XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S

XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

cpu=nickalus

SHELL VARIABLES AND THEIR VALUES:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum

DISPLAY=:0.0

DSQUERY=/data/sybase

EBTRC=/data/sybase/sybooks/sun4m/.ebtrc

EDITOR=vi

HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help

HOME=/home/mmolinet

HOST=nickalus

HZ=100

IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LOGNAME=mmolinet

MAIL=/var/spool/mail/mmolinet

MAILCHECK=600

MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
OPTIND=1
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adoobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/data/sybase:/data/sybase/bin:/data/sybase/sybooks/sun4m/bin
PWD=/lr1_IT
REMOTEDIPLAY=nickalus:0.0
SHELL=/bin/csh
SYBASE=/data/sybase
SYBROOT=/data/sybase/sybooks
TERM=vs100
TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[m\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m\E[2J

E[H\E[?7h\E[?1;3;4;6l\E[4l\E<:k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=^H:kd=\EOB:ke=\E[?1l\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#=65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:sc=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:

TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim

TZ=US/Eastern

USER=mmolinet

VISUAL=vi

WINDOWID=12582925

XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S

XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

cpu=nickalus

platform=SunOS

selection=1

testid=TC1_15_Env

Test Case 1.15 (B01.02.01) 10/1/95

/Ir1_IT/T1/TC1_15/TC1_15_log

This test is being run directly on nickalus (AI&T WS).

nickalus{mmolinet}58: ps -ef | grep mmolinet

mmolinet 25978 25964 80 15:35:32 console 0:03 /tools/bin/zmail -motif -iconic

```
mmolinet 25960 25956 11 15:35:25 console 0:00 /usr/openwin/bin/xinit -- /usr/openwin/bin/X :0 -auth /home/mmolinet/.xsun.nick
mmolinet 25983 25976 80 15:35:35 pts/16 0:01 -csh
mmolinet 26133 25983 3 15:39:03 pts/16 0:00 grep mmolinet
mmolinet 25869 1 80 15:33:05 console 0:01 -csh
mmolinet 25980 25964 80 15:35:32 console 0:01 mwm
mmolinet 25961 25960 80 15:35:25 console 0:05 /usr/openwin/bin/X :0 -auth /home/mmolinet/.xsun.nickalus:0
mmolinet 25956 25869 14 15:35:24 console 0:00 /bin/sh /usr/openwin/bin/openwin
mmolinet 26132 25983 36 15:39:03 pts/16 0:00 ps -ef
mmolinet 25964 25960 14 15:35:29 console 0:00 /bin/sh /home/mmolinet/.xinitrc
mmolinet 25976 25964 36 15:35:32 ? 0:00 xterm -T /home/mmolinet -n /home/mmolinet -ls -rw -geometry 80x24+0-160
mmolinet 25975 25964 24 15:35:31 console 0:00 xconsole -exitOnFail -geometry +0+0
mmolinet 25977 25964 25 15:35:32 console 0:00 xclock -geometry -0+0
nickalus{mmolinet}59: xterm -T Account_A &
[1] 26332
nickalus{mmolinet}60: ^Account_A^Monitor_Log
xterm -T Monitor_Log &
[2] 26377

nickalus{mmolinet}64: whoami
mmolinet
```

nickalus{mmolinet}65: pwd

/Ir1_IT/T1/TC1_15

{Account_A Window}

nickalus{mmolinet}58: rlogin apalmer -l pchang

Password:

Please wait...checking for disk quotas

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(c)Copyright 1989-1991 The University of Maryland

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forth in FAR 52.227-19(c)(1,2).

No match.

apalmer{pchang}1: telnet irwin

Trying...

Connected to irwin.hitc.com.

Escape character is '^]'.

IRIX System V.4 (irwin)

login: pchang

Password:

IRIX Release 5.3 IP22 irwin

Copyright 1987-1994 Silicon Graphics, Inc. All Rights Reserved.

No match

```
irwin{pchang}1: ps -ef | grep pchang
pchang 26088 26074 1 16:36:23 pts/1 0:00 -csh
pchang 26074 26073 1 16:33:09 pts/1 0:00 -csh
pchang 26087 26074 10 16:36:23 pts/1 0:00 ps -ef
```

{Account B (original) Window}

```
irwin{mmolinet}58: ps -ef | grep pchang
pchang 26074 26073 0 16:33:09 pts/1 0:00 -csh
mmolinet 26121 26090 0 16:37:04 pts/3 0:00 grep pchang
```

{Account_A Window}

```
irwin{pchang}2: exit
irwin{pchang}3: logout
Connection closed by foreign host.
apalmer{pchang}2:
```

{Account B (original) Window}

irwin{mmolinet}59: !!

ps -ef | grep pchang

mmolinet 26123 26090 1 16:38:50 pts/3 0:00 grep pchang

irwin{mmolinet}60: exit

irwin{mmolinet}61: logout

Connection closed.

nickalus{mmolinet}73: rlogin apalmer

Please wait...checking for disk quotas

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#####

4:45pm up 4:08, 3 users, load average: 0.37, 0.16, 0.12

User tty login@ idle JCPU PCPU what

mmolinet pty/ttys1 4:45pm 4:10 -csh

pchang pty/ttys0 3:59pm -csh

root pty/ttp2 1:39pm 5:03 -

#####

apalmer{mmolinet}1:

{Account_A Window}

apalmer{pchang}2: exit

apalmer{pchang}3: logout

Connection closed.

nickalus{mmolinet}59:

{Account B (original) Window}

apalmer{mmolinet}1: ps -ef | grep pchang

apalmer{mmolinet}2:

3.1.15.4 Recommendations and Conclusions

All (remote and local) logon and logoff activities were successful and were recorded in a log file.

3.1.16 Logoffs - Abnormal (B01.02.02)

3.1.16.1 Test Summary

This test verifies that when an abnormal event occurs and disconnects an account from the system (i.e., the tester's workstation is turned off, one of the hosts is powered off, a UNIX "kill", etc.), the system properly closes connection to the account. History log file entries are recorded for all activity. This test is to be repeated for the different types of abnormal events that will cause a disconnect from the system. See contents under test result for more detail.

3.1.16.2 Deviations (if applicable)

Test Inputs

Valid account names/passwords for H1, H2, and H3.

Test Steps

Log onto H1.

Perform rlogin to Host 2.

Perform telnet to Host 3.

Turn off (power down) H3.

Perform a UNIX kill command to terminate H2 connection.

Verify history log file records.

Test Outputs

History log file records. Port connections to the hosts are properly closed.

Success Criteria

History log file records which include a record that indicates that the H3 connection was closed and the H2 connection was terminated. If one of the hosts was powered off, then the user should be able to log back on once the host is powered back up.

Assumptions and Constraints

None.

None.

3.1.16.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)	
Test Case Name:	Logoffs - Abnormal	
Test Case ID:	TC 1.16 (B01.02.02)	
Test Location:	EDF	DAAC:
S/W Config./ Version:	See /Ir1_IT/T1/TC1_16/TC1_16_envH1, TC1_16_envH2, & TC1_16_envH3 on dps3sunedf.	
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_16/TC1_16_envH1, TC1_16_envH2, & TC1_16_envH3 on dps3sunedf.	
Test Data:	N/A	
Test Tools/ Scripts:	N/A	
Test Date : 10/03/95	Test Time: 10:00 AM	Tester(s): Mike Molinet

Witness(es): N/A

Comments: Test ran smoothly. Ensured that Norman booted up properly after powering down for test. See vi test log (/Ir1_IT/T1/TC1_16/TC1_16_log on dps3sunedf).

NCRs Written: 0

NCRs Verified: N/A

N C R s U n - N/A
Verified:

Pass	Fail	Partial Pass/Fail	
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_16_envH1

Date/Time: Tue Oct 3 15:40:07 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

SunOS nickalus 5.4 Generic_101945-27 sun4m sparc

LIST OF ACTIVE PROCESSES:

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim

DISPLAY=:0.0

DSQUERY=/data/sybase

EBTRC=/data/sybase/sybooks/sun4m/.ebtrc

EDITOR=vi

HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help

HOME=/home/mmolinet

HOST=nickalus

HZ=100

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LOGNAME=mmolinet

MAIL=/var/spool/mail/mmolinet

MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man

MERCURY_ELMHOST=sim.hitc.com

MOTIFHOME=/opt/SUNWmotif

M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner

M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
PATH=.:./home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/ado/be:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/data/sybase:/data/sybase/bin:/data/sybase/sybooks/sun4m/bin
PWD=/lr1_IT
REMOTEDIPLAY=nickalus:0.0
SHELL=/bin/csh
SYBASE=/data/sybase
SYBROOT=/data/sybase/sybooks
TERM=vs100
TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[m\E[2J\E[H\?7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m\E[2J\E[H\?7h\E[?1;3;4;6l\E[4l\E<:k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=\^H:kd=\EOB:ke=\E[?1l\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:sc=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=US/Eastern
USER=mmolinet

VISUAL=vi
WINDOWID=16777229
XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
cpu=nickalus

SHELL VARIABLES AND THEIR VALUES:

AB_CARDCATALOG=/home/ab/ab_cardcatalog
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim
DISPLAY=:0.0
DSQUERY=/data/sybase
EBTRC=/data/sybase/sybooks/sun4m/.ebtrc
EDITOR=vi
HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help
HOME=/home/mmolinet
HOST=nickalus
HZ=100
IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MAILCHECK=600
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
OPTIND=1
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/ado/be:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/data/sybase:/data/sybase/bin:/data/sybase/sybooks/sun4m/bin
PWD=/lr1_IT
REMOTEDIPLAY=nickalus:0.0

SHELL=/bin/csh
SYBASE=/data/sybase
SYBROOT=/data/sybase/sybooks
TERM=vs100
TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r]\E[m]\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:rs=\E[r]\E[m]\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:E<:k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=\^H:kd=\EOB:ke=\E[?1l\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:sc=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=US/Eastern
USER=mmolinet
VISUAL=vi
WINDOWID=16777229
XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
cpu=nickalus
platform=SunOS
selection=1
testid=TC1_16_envH1

TEST CASE IDENTIFICATION: TC1_16_envH2

Date/Time: Tue Oct 3 15:47:04 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

HP-UX apalmer A.09.05 A 9000/755 2011913188 two-user license

LIST OF ACTIVE PROCESSES:

```
mmolinet 5365 1 0 15:43:09 ttyp3 0:00 /usr/softbench/bin/softmsgsrv -bootfile /usr/softbench/confi
mmolinet 5371 5370 0 15:43:17 ttyp2 0:00 /bin/csh
mmolinet 5467 5466 4 15:47:04 ttyp2 0:00 ps -edf
mmolinet 5370 5361 0 15:43:17 ? 0:00 hpterm
mmolinet 5466 5458 0 15:47:04 ttyp2 0:00 grep mmolinet
mmolinet 5368 5356 0 15:43:13 ? 0:00 xload -name vueload -nolabel -iconic -xrm vueload*primaryCol
mmolinet 5356 1376 0 15:43:08 ? 0:00 /usr/vue/bin/vuesession
mmolinet 5367 5356 0 15:43:13 ? 0:00 xclock -name DigitalClock -digital -update 1
```

```
mmolinet 5361 5356 0 15:43:09 ?      0:00 vuewm  
mmolinet 5458 5371 2 15:46:51 ttyp2  0:00 /bin/sh env3
```

```
&d@&a0y0CJRSystem: apalmer&a54CTue Oct 3 15:47:04 1995BLoad averages: 0.15, 0.13, 0.12B61 processes: 60 sleeping, 1  
waitingBCpu states: 0.4% user, 0.0% nice, 0.2% system, 99.4% idle, 0.0% unk5, 0.0% Bunk6, 0.0% unk7, 0.0% unk8BMemory:  
23400K (18612K) real, 44316K (39472K) virtual, 193404K free   Screen # 1/4BBTTY PID USERNAME PRI NI SIZE RES  
STATE TIME %WCPU %CPU COMMANDDB? 1037 root 154 20 5816K 1896K sleep 3:35 0.95 0.95 /opt/dceloB?  
1060 daemon 154 20 4040K 1596K sleep 0:22 0.32 0.32 /usr/bin/XBp2 5371 mmolinet168 20 224K 176K sleep 0:00  
0.20 0.20 /bin/cshBp2 5458 mmolinet158 20 236K 100K sleep 0:00 0.34 0.16 /bin/sh enB? 1042 root 154 20 4052K  
1196K sleep 0:51 0.16 0.16 /opt/dceloB? 1043 root 154 20 3776K 1448K sleep 1:25 0.14 0.14 /opt/dceloB?&a7C954  
root 154 10 4812K 1760K sleep 0:41 0.07 0.07 /opt/dceloB? 5370 mmolinet154 20 4596K 468K sleep 0:00 0.07  
0.07 hptermB?&a8C77 root 127 20 24K 64K sleep 0:10 0.06 0.06 /etc/synceB?&a7C160 root 154 20 192K 236K  
sleep 0:06 0.06 0.06 /usr/etc/aB?&a7C950 root 154 20 3856K 1144K sleep 0:15 0.04 0.04 /opt/dceloB?&a7C117 root  
154 20 180K 68K sleep 0:00 0.01 0.01 /etc/portmB?&a7C177 lp&a19C154 20 116K 168K sleep 0:00 0.00 0.00  
lpschedB? 1059 root 154 20 4496K 380K sleep 0:00 0.00 0.00 /usr/vue/bB? 1058 root 156 20 148K 56K sleep  
0:00 0.00 0.00 /etc/getty
```

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

```
*****
```

COLUMNS=80
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum
DISPLAY=apalmer:0.0
EDITOR=vi
HOME=/home/mmolinet
HOST=apalmer
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib

LINES=24
LOGNAME=mmolinet
MAIL=/usr/mail/mmolinet
MANPATH=/usr/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consumsim:/var:/etc:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
PWD=/tmp_mnt/home/mmolinet
SHELL=/bin/csh
TERM=hpterm
TRMMSSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
USER=mmolinet
VISUAL=vi
WINDOWID=50331665

SHELL VARIABLES AND THEIR VALUES:

COLUMNS=80
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consimm
DISPLAY=apalmer:0.0
EDITOR=vi
HOME=/home/mmolinet
HOST=apalmer
IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LINES=24
LOGNAME=mmolinet
MAIL=/usr/mail/mmolinet
MAILCHECK=600
MANPATH=/usr/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
PATH=.:./home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consimm:/var:/etc:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin
PWD=/tmp_mnt/home/mmolinet
SHELL=/bin/csh

TERM=hpterm
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
USER=mmolinet
VISUAL=vi
WINDOWID=50331665
platform=HP-UX
selection=1
testid=TC1_16_envH2

TEST CASE IDENTIFICATION: TC1_16_envH3

Date/Time: Tue Oct 3 15:50:54 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

IRIX norman 5.3 11091812 IP22 mips

LIST OF ACTIVE PROCESSES:

```
mmolinet 28471 28465 0 15:50:17 pts/3 0:00 -csh
mmolinet 28504 28471 8 15:50:37 pts/3 0:00 /bin/sh env3
mmolinet 28512 28504 1 15:50:54 pts/3 0:00 /bin/sh env3
mmolinet 28470 28440 0 15:50:16 ? 0:00 mwm
mmolinet 28440 28332 0 15:50:14 ? 0:00 /bin/sh /home/mmolinet/.xsession
mmolinet 28444 28440 0 0:00 <defunct>
mmolinet 28466 28440 0 15:50:16 ? 0:00 xclock -geometry -0+0
mmolinet 28465 28440 0 15:50:16 ? 0:00 xterm -T /home/mmolinet -n /home/mmolinet -ls -rw -geometry 80x24+0-160
mmolinet 28513 28512 4 15:50:54 pts/3 0:00 ps -edf
```

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consim

DISPLAY=:0.0

EDITOR=vi

HOME=/home/mmolinet
HOST=norman
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MANPATH=/usr/atria/doc/man
MERCURY_ELMHOST=sim.hitc.com
MSGVERB=text:action
M_LROOT=/net/sim.hitc.com/data/tools/QA/Irunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOMSGLABEL=1
NOMSGSEVERITY=1
PATH=.:./home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consumis:/usr/bsd:/usr/etc:/usr/cat
man:/usr/man:/usr/lib:/usr/lib/X11:/usr/local/man:/bin:/usr/ucb:/usr/bin:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/
al:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/S
UNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools
/QA/Irunner/bin:/net/sim.hitc.com/data/tools/QA/Irunner/samples/Irbin:/usr/atria/bin
PWD=/Ir1_IT
REMOTEDISPLAY=norman:0.0
SHELL=/bin/csh
TERM=xterm

TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
USER=mmolinet
VISUAL=vi
WINDOWID=29360141

SHELL VARIABLES AND THEIR VALUES:

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum
DISPLAY=:0.0
EDITOR=vi
HOME=/home/mmolinet
HOST=norman
IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MAILCHECK=600

MANPATH=/usr/atria/doc/man
MERCURY_ELMHOST=sim.hitc.com
MSGVERB=text:action
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOMSGLABEL=1
NOMSGSEVERITY=1
OPTIND=1
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consumsim:/usr/bsd:/usr/etc:/usr/cat
man:/usr/man:/usr/lib:/usr/lib/X11:/usr/local/man:/bin:/usr/ucb:/usr/bin:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/loc
al:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/adobe:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/S
UNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools
/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/usr/atria/bin
PWD=/lr1_IT
REMOTEDIPLAY=norman:0.0
SHELL=/bin/csh
TERM=xterm
TRMMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=EST5EDT
USER=mmolinet
VISUAL=vi

WINDOWID=29360141

platform=IRIX

selection=1

testid=TC1_16_envH3

Test Case 1.16 (B01.02.02) 10/3/95

/Ir1_IT/T1/TC1_16/TC1_16_log

This test is being run directly on nickalus (AI&T WS).

Only 1 account is needed for this test (mmolinet).

H1=nickalus

H2=apalmer

H3=norman

nickalus{mmolinet}32: pwd

/Ir1_IT

nickalus{mmolinet}33: whoami

mmolinet

nickalus{mmolinet}34: who | grep mmolinet

mmolinet pts/0 Oct 3 16:11

mmolinet console Oct 3 15:10

mmolinet pts/23 Oct 3 15:11

nickalus{mmolinet}35: ps -ef | grep mmolinet

mmolinet 17617 17397 24 16:19:25 pts/0 0:00 ps -ef

mmolinet 16540 15823 80 15:40:20 pts/23 0:01 /bin/csh

mmolinet 15205 1 80 14:35:37 console 0:01 -csh

mmolinet 15804 15800 13 15:11:11 console 0:00 /usr/openwin/bin/xinit -- /usr/openwin/bin/X :0 -auth /home/mmolinet/.xsun.nick

mmolinet 17618 17397 3 16:19:25 pts/0 0:00 grep mmolinet

mmolinet 15818 15807 24 15:11:20 console 0:00 xclock -geometry -0+0

mmolinet 15816 15807 31 15:11:20 console 0:00 xconsole -exitOnFail -geometry +0+0

mmolinet 15806 15804 80 15:11:11 console 0:10 /usr/openwin/bin/X :0 -auth /home/mmolinet/.xsun.nickalus:0

mmolinet 15821 15807 80 15:11:21 console 0:04 mwm

mmolinet 15800 15205 12 15:11:09 console 0:00 /bin/sh /usr/openwin/bin/openwin

mmolinet 17541 16540 26 16:16:09 pts/23 0:00 vi TC1_16_log

mmolinet 15817 15807 64 15:11:20 ? 0:01 xterm -T /home/mmolinet -n /home/mmolinet -ls -rw -geometry 80x24+0-160

mmolinet 15819 15807 80 15:11:20 console 0:03 /tools/bin/zmail -motif -iconic

mmolinet 15807 15804 17 15:11:18 console 0:00 /bin/sh /home/mmolinet/.xinitrc

mmolinet 17396 16540 36 16:11:25 ? 0:00 xterm -T H1_H2_H3

mmolinet 15823 15817 80 15:11:24 pts/23 0:01 -csh

mmolinet 17397 17396 80 16:11:26 pts/0 0:01 csh

nickalus{mmolinet}36: rlogin apalmer

Please wait...checking for disk quotas

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Operating System: HP-UX

```
#####
#
```

4:19pm up 1 day, 3:43, 2 users, load average: 0.27, 0.16, 0.14

User tty login@ idle JCPU PCPU what

kcampbel pty/ttys2 2:06pm 1:39 dtscp

mmolinet pty/ttys0 4:19pm 1:03 sort

```
#####
#
```

apalmer{mmolinet}1: whoami

mmolinet

apalmer{mmolinet}2: who | grep mmolinet

mmolinet pty/ttys0 Oct 3 16:19

apalmer{mmolinet}12: ps -ef | grep mmolinet

mmolinet 5573 5572 0 16:19:50 ttys0 0:00 -csh

mmolinet 5617 5573 4 16:24:11 ttys0 0:00 ps -ef

apalmer{mmolinet}13: telnet norman

Trying...

Connected to norman.hitc.com.

Escape character is '^]'.

IRIX System V.4 (norman)

login: mmolinet

Password:

IRIX Release 5.3 IP22 norman

Copyright 1987-1994 Silicon Graphics, Inc. All Rights Reserved.

Last login: Tue Oct 3 15:03:31 EDT 1995 by mmolinet@rainman.HITC.COM

Operating System: IRIX

#####
#

4:25pm up 5 days, 2:21, 1 user, load average: 0.23, 0.05, 0.01

User tty from login@ idle JCPU PCPU what

mmolinet q0 apalmer.HITC.C 4:25pm w

#####
#

norman{mmolinet}25: whoami

mmolinet

norman{mmolinet}26: who | grep mmolinet

mmolinet ttyq0 Oct 3 16:25

```
norman{mmolinet}27: ps -ef | grep mmolinet
mmolinet 28697 28665 0 16:26:46 pts/0 0:00 grep mmolinet
mmolinet 28665 28664 2 16:25:05 pts/0 0:00 -csh
mmolinet 28696 28665 4 16:26:46 pts/0 0:00 ps -ef
norman{mmolinet}28: who
mmolinet  ttyq0      Oct 3 16:25
norman{mmolinet}29: Connection closed by foreign host. {norman OFF}
```

```
apalmer{mmolinet}14: rlogin norman
rcmd: connect: norman.hitc.com: Connection timed out
apalmer{mmolinet}15: exit
apalmer{mmolinet}16: logout
Connection closed.
nickalus{mmolinet}37: ps -ef | grep mmolinet
mmolinet 18036 17397 20 16:39:45 pts/0 0:00 ps -ef
mmolinet 16540 15823 80 15:40:20 pts/23 0:01 /bin/csh
mmolinet 15205 1 80 14:35:37 console 0:01 -csh
mmolinet 15804 15800 13 15:11:11 console 0:00 /usr/openwin/bin/xinit -- /usr/openwin/bin/X :0 -auth /home/mmolinet/.xsun.nick
mmolinet 15818 15807 24 15:11:20 console 0:00 xclock -geometry -0+0
mmolinet 15816 15807 31 15:11:20 console 0:00 xconsole -exitOnFail -geometry +0+0
```

```
mmolinet 15806 15804 80 15:11:11 console 0:17 /usr/openwin/bin/X :0 -auth /home/mmolinet/.xsun.nickalus:0
mmolinet 15821 15807 80 15:11:21 console 0:04 mwm
mmolinet 15800 15205 12 15:11:09 console 0:00 /bin/sh /usr/openwin/bin/openwin
mmolinet 17541 16540 80 16:16:09 pts/23 0:02 vi TC1_16_log
mmolinet 15817 15807 80 15:11:20 ? 0:02 xterm -T /home/mmolinet -n /home/mmolinet -ls -rw -geometry 80x24+0-160
mmolinet 18037 17397 3 16:39:45 pts/0 0:00 grep mmolinet
mmolinet 15819 15807 80 15:11:20 console 0:03 /tools/bin/zmail -motif -iconic
mmolinet 15807 15804 17 15:11:18 console 0:00 /bin/sh /home/mmolinet/.xinitrc
mmolinet 17396 16540 47 16:11:25 ? 0:00 xterm -T H1_H2_H3
mmolinet 15823 15817 80 15:11:24 pts/23 0:01 -csh
mmolinet 17397 17396 80 16:11:26 pts/0 0:01 csh
nickalus{mmolinet}38:
```

3.1.16.4 Recommendations and Conclusions

All (remote and local) logon and abnormal(power down) logoff were successful and recorded in a log file. Ensured that the test system boot up properly after powering down for test.

3.1.17 Login to EDF (T01-02.02.01)

3.1.17.1 Test Summary

This test verifies that a user is able to successfully access a host machine within the EDF from an external location. See contents under test result for more detail.

3.1.17.2 Deviations (if applicable)

Test Inputs

Valid account name/password for tester on external host (H1) and host within EDF (H2).

Test Steps

Perform standard remote login on EDF host machine from external host.

Verify history log file.

Test Outputs

Successful logon. History log file updated with tester activities.

Success Criteria

Connection to the system (H2) is established and the main screen of the host is displayed to the tester. The history log file is updated with the tester's logon activities.

Assumptions and Constraints

None.

3.1.17.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
Test Case Name:	Login to EDF
Test Case ID:	TC 1.17 (T01-02.02.01)

Test Location:	EDF	DAAC:
S/W Config./ Version:	See /Ir1_IT/T1/TC1_17/TC1_17_env on dps3sunedf.	
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_17/TC1_17_env on dps3sunedf.	
Test Data:	N/A	
Test Tools/ Scripts:	N/A	
Test Date: 9/29/95	Test Time: 3:00 PM	Tester(s): Mike Molinet
Witness(es): N/A		
Comments: Test ran smoothly. See vi test log (/Ir1_IT/T1/TC1_17/TC1_17_log on dps3sunedf).		

NCRs Written:	0		
NCRs Verified:	N/A		
N C R s U n - Verified:	N/A		
Pass	Fail	Partial Pass/Fail	
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1_17_env

Date/Time: Mon Oct 2 11:28:23 EDT 1995

TEST CONDUCTOR: mmolinet

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

SunOS nickalus 5.4 Generic_101945-27 sun4m sparc

LIST OF ACTIVE PROCESSES:

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum

DISPLAY=:0.0

DSQUERY=/data/sybase

EBTRC=/data/sybase/sybooks/sun4m/.ebtrc

EDITOR=vi

HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help

HOME=/home/mmolinet

HOST=nickalus
HZ=100
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfd/doc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd
NOSUNVIEW=0
OPENWINHOME=/usr/openwin
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfd/doc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/ado/be:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/data/sybase:/data/sybase/bin:/data/sybase/sybooks/sun4m/bin
PWD=/lr1_IT
REMOTEDIPLAY=nickalus:0.0
SHELL=/bin/csh

SYBASE=/data/sybase
SYBROOT=/data/sybase/sybooks
TERM=vs100
TERMCAP=xterm|vs100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H\E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r\E[m]\E[2J\E[H\?\7h\E[?1;3;4;6l\E[4l:rs=\E[r\E[m]\E[2J\E[H\E[?7h\E[?1;3;4;6l\E[4l:E<:k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=\^H:kd=\EOB:ke=\E[?1l\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:sc=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=US/Eastern
USER=mmolinet
VISUAL=vi
WINDOWID=12582925
XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
cpu=nickalus

SHELL VARIABLES AND THEIR VALUES:

AB_CARDATALOG=/home/ab/ab_cardcatalog
CONSIM=/net/pete.gsfc.nasa.gov/data/run_consum

DISPLAY=:0.0
DSQUERY=/data/sybase
EBTRC=/data/sybase/sybooks/sun4m/.ebtrc
EDITOR=vi
HELPPATH=/usr/openwin/lib/locale:/usr/openwin/lib/help
HOME=/home/mmolinet
HOST=nickalus
HZ=100
IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LOGNAME=mmolinet
MAIL=/var/spool/mail/mmolinet
MAILCHECK=600
MANPATH=/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim.hitc.com
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NCD_LIBRARY_PATH=/usr/lib/X11/ncd

NOSUNVIEW=0
OPENWINHOME=/usr/openwin
OPTIND=1
PATH=.:~/home/mmolinet:/net/pete.gsfc.nasa.gov/data/run_trmmsim:/net/pete.gsfc.nasa.gov/data/run_consum:/var:/etc:/usr/man:/usr/share/man:/opt/SUNWspro/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man:/usr/openwin/bin:/opt/SUNWmotif/bin:/opt/SUNWspro/bin:/etc:/usr/ccs/bin:/bin:/usr/ucb:/usr/bsd:/usr/bin:/usr/etc:/usr/sbin:/usr/local/bin:/bin/X11:/usr/bin/X11:/lib/X11:/usr/local:/usr/local/bin:/home/tools:/home/aouyang/local/mcom:/home/aouyang/local/ado_be:/home/aouyang/local/tools:/home/ddts/bin:/usr/atria/bin:/opt/SUNWmotif/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/Irunner/bin:/net/sim.hitc.com/data/tools/QA/Irunner/samples/lrbin:/data/sybase:/data/sybase/bin:/data/sybase/sybooks/sun4m/bin
PWD=/lr1_IT
REMOTEDIPLAY=nickalus:0.0
SHELL=/bin/csh
SYBASE=/data/sybase
SYBROOT=/data/sybase/sybooks
TERM=vt100
TERMCAP=xterm|vt100:AL=\E[%dL:DC=\E[%dP:DL=\E[%dM:DO=\E[%dB:IC=\E[%d@:UP=\E[%dA:al=\E[L:am:bs:cd=\E[J:ce=\E[K:cl=\E[H:E[2J:cm=\E[%i%d;%dH:co#80:cs=\E[%i%d;%dr:ct=\E[3k:dc=\E[P:dl=\E[M:im=\E[4h:ei=\E[4l:mi:ho=\E[H:is=\E[r:E[m]\E[2J\E[H\?7h\E[?1;3;4;6l\E[4l:rs=\E[r:E[m]\E[2J\E[H\?7h\E[?1;3;4;6l\E[4l:E<:k1=\EOP:k2=\EOQ:k3=\EOR:k4=\EOS:kb=\^H:kd=\EOB:ke=\E[?1l\E>:kl=\EOD:km:kn#4:kr=\EOC:ks=\E[?1h\E=:ku=\EOA:li#65:md=\E[1m:me=\E[m:mr=\E[7m:ms:nd=\E[C:pt:sc=\E7:rc=\E8:sf=\n:so=\E[7m:se=\E[m:sr=\EM:te=\E[2J\E[?47l\E8:ti=\E7\E[?47h:up=\E[A:us=\E[4m:ue=\E[m:xn:
TRMMSIM=/net/pete.gsfc.nasa.gov/data/run_trmmsim
TZ=US/Eastern
USER=mmolinet
VISUAL=vi

WINDOWID=12582925
XFILESEARCHPATH=/usr/openwin/lib/locale/%L/%T/%N%S:/usr/openwin/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
cpu=nickalus
platform=SunOS
selection=1
testid=TC1_17_env

Test Case 1.17 (T01-02.02.01) 9/29/95

/data/Ir1/T1/TC1_17/TC1_17_log

This test is being run directly on nickalus (AI&T WS).

```
nickalus{mmolinet}76: who | grep mmolinet
mmolinet  console   Oct 2 11:27
mmolinet  pts/16    Oct 2 11:27
```

3.1.17.4 Recommendations and Conclusions

The logon to a host machine within the EDF was successful. Activity was recorded in the log file.

3.1.18 External Interfaces Integration Test (BC002.001)

3.1.18.1 Test Summary

This test case demonstrates access to external interfaces implemented in Ir1, using the Gateway concept. See contents under test result for more detail.

3.1.18.2 Deviations (if applicable)

Test Inputs

Gateway interface commands.

Test Steps

Demonstrate Gateway access.

Test Outputs

History log file.

Success Criteria

The gateway process is properly initiated and prompts user for appropriate access information.

Assumptions and Constraints

The detailed external interfaces, accessed via the Gateway, can be seen in the Ir1 External Interface diagrams (one for the Data Server and one for Ingest), and they are covered by test cases 10.3 through 10.6, 11.3, and 11.4. The purpose of this test case is to demonstrate access to this interface

3.1.18.3 Test Results

TEST LOG

Thread / Build Name:	Ir1 Infrastructure (T1)
----------------------	--------------------------------

Test Case Name:	External Interfaces Integration	
Test Case ID:	TC 1.18 (BC002.001)	
Test Location: EDF DAAC:		
S/W Config./ Version:	See /Ir1_IT/T1/TC1_18/TC1_18_env on dps3sunedf.	
H/W Config./ Host Names:	See /Ir1_IT/T1/TC1_18/TC1_18_env on dps3sunedf.	
Test Data:	N/A	
Test Tools/ Scripts:	SocketClient - testdriver to simulate the external interface, prtm - tool to parse the output message	
Test Date: 11/06/95	Test Time: 9:00 AM	Tester(s): Ping Chang
Witness(es): N/A		
Comments: Test was conducted by using MSS Gateway Server to bring up Gateway software, then bringing up the test tool to simulate the external interface. The test has two parts: The first part is to input the valid ID & Password for the Authentication request, and the second part is to input		

a valid ID and invalid password. Since this test case is concerned with verifying the existence of the Gateway interface, the test was stopped when we verified that the Gateway process comes up. For the detailed interface tests, please refer to TC 10.3 through TC 10.6 and TC 11.3 & 11.4.

See vi test log (/Ir1_IT/T1/TC1_18/TC1_18_log on dps3sunedf) and validation response files (/Ir1_IT/T1/TC1_18/AUT_Valid & AUT_invalid).

NCRs Written:	0		
NCRs Verified:	N/A		
N C R s U n - Verified:	N/A		
Pass	Fail	Partial Pass/Fail	
1st Run	Formal Run	Retest	Release

TEST CASE IDENTIFICATION: TC1.18

Date/Time: Mon Nov 6 09:06:22 EST 1995

TEST CONDUCTOR: pchang

The UNIX SYSTEMS OF THIS TEST CASE ARE AS FOLLOWS:

SunOS mss2sunedf 5.4 Generic_101945-27 sun4m sparc

LIST OF ACTIVE PROCESSES:

pchang 25170 25168 80 08:55:37 pts/6 0:01 -csh

pchang 25272 25150 66 09:03:21 pts/5 0:01 /bin/csh

pchang 25189 25187 80 08:56:03 pts/7 0:01 -csh

pchang 25266 25189 69 09:03:06 pts/7 0:01 /bin/csh

pchang 25298 25297 38 09:06:22 pts/5 0:00 ps -aef

pchang 25150 25148 80 08:55:10 pts/5 0:01 -csh

pchang 25297 25287 4 09:06:22 pts/5 0:00 grep pchang

pchang 22026 1 6 Nov 02 ? 0:00 testd

pchang 25287 25272 13 09:06:09 pts/5 0:00 /bin/sh env3

TEST ENVIRONMENT OF THIS TEST CASE IS AS FOLLOWS:

AB_CARDCATALOG=/home/ab/ab_cardcatalog

BRAND=sun

COLUMNS=80

ECS_DEFAULT_PROFILE=.:/Ir1/cell-profile

ECS_INGEST_DAA_ERROR_FILE=/Ir1_IT/INGEST/data

ECS_INGEST_DDN_ERROR_FILE=/Ir1_IT/INGEST/data

ECS_INGEST_EXE=/Ir1_IT/INGEST/bin/sun5/SessServer

ECS_INGEST_FTP_LOCAL_PATH=/Ir1_IT/INGEST/temp_store

ECS_INGEST_HOST_FILE_PATH=/Ir1_IT/INGEST/data

ECS_INGEST_POLL_TIMER=36000

ECS_INGEST_SESSION_FILE_PATH=/Ir1_IT/INGEST/bin/sun5

GatewayCDSGatewayGroupEnv=.:/Ir1/Gateway/gatewaygroup

GatewayCDSGatewayServerEnv=.:/Ir1/Gateway/gateway

GatewayCDSIngestGroupEnv=.:/Ir1/Ingest/ingestgroup

GatewayCDSIngestServerEnv=.:/Ir1/Ingest/ingestserver
GatewayCDSIngestSessionEnv=.:/Ir1/Ingest/insessionserver
GatewayCDSProfileNameEnv=.:/Ir1/cell-profile
HOME=/home/pchang
HOST=mss2sunedf
HZ=100
LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LINES=24
LOGNAME=pchang
MAIL=/var/spool/mail/pchang
MANPATH=/opt/SUNWspro/man:/usr/man:/usr/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NNTPSERVER=newsroom
OPENWINHOME=/usr/openwin
OSTYPE=SunOS
PATH=/usr/local/bin:/opt/SUNWspro/bin:/bin:/usr/bin:/etc:/usr/etc:/usr/ucb:/usr/openwin/bin:/usr/openwin/demo:/usr/ccs/bin:/usr/sbin:/home/ddts/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/usr/atria/bin:/ecs/triggers:/ecs/cm/triggers::/tools/bin:/usr/local/xvnews

PRINTER=watson
PWD=/home/pchang
SHELL=/bin/csh
SWINHOME=/opt/SoftWindows
TERM=xterm
TEST_BASE_PATH=/Ir1_IT
TZ=US/Eastern
UIDPATH=%U:/opt/SUNWmotif/lib/uid/%U
USER=pchang
XFILESEARCHPATH=/usr/openwin/lib/app-defaults/%N:/opt/SUNWmotif/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings

SHELL VARIABLES AND THEIR VALUES:

AB_CARDCATALOG=/home/ab/ab_cardcatalog
BRAND=sun
COLUMNS=80
ECS_DEFAULT_PROFILE=.:./Ir1/cell-profile
ECS_INGEST_DAA_ERROR_FILE=/Ir1_IT/INGEST/data

ECS_INGEST_DDNN_ERROR_FILE=/Ir1_IT/INGEST/data
ECS_INGEST_EXE=/Ir1_IT/INGEST/bin/sun5/SessServer
ECS_INGEST_FTP_LOCAL_PATH=/Ir1_IT/INGEST/temp_store
ECS_INGEST_HOST_FILE_PATH=/Ir1_IT/INGEST/data
ECS_INGEST_POLL_TIMER=36000
ECS_INGEST_SESSION_FILE_PATH=/Ir1_IT/INGEST/bin/sun5
GatewayCDSGatewayGroupEnv=./Ir1/Gateway/gatewaygroup
GatewayCDSGatewayServerEnv=./Ir1/Gateway/gateway
GatewayCDSIngestGroupEnv=./Ir1/Ingest/ingestgroup
GatewayCDSIngestServerEnv=./Ir1/Ingest/ingestserver
GatewayCDSIngestSessionEnv=./Ir1/Ingest/insessionserver
GatewayCDSProfileNameEnv=./Ir1/cell-profile
HOME=/home/pchang
HOST=mss2sunedf
HZ=100
IFS=

LD_LIBRARY_PATH=/usr/openwin/lib:/opt/SUNWmotif/lib
LINES=24
LOGNAME=pchang

MAIL=/var/spool/mail/pchang
MAILCHECK=600
MANPATH=/opt/SUNWspro/man:/usr/man:/usr/openwin/man:/opt/SUNWmfdoc/man:/usr/local/man
MERCURY_ELMHOST=sim
MOTIFHOME=/opt/SUNWmotif
M_LROOT=/net/sim.hitc.com/data/tools/QA/lrunner
M_ROOT=/net/sim.hitc.com/data/tools/QA/xrunner
NNTPSERVER=newsroom
OPENWINHOME=/usr/openwin
OPTIND=1
OSTYPE=SunOS
PATH=/usr/local/bin:/opt/SUNWspro/bin:/bin:/usr/bin:/etc:/usr/etc:/usr/ucb:/usr/openwin/bin:/usr/openwin/demo:/usr/ccs/bin:/usr/sbin:/home/ddts/bin:/net/sim.hitc.com/data/tools/QA/xrunner/bin:/net/sim.hitc.com/data/tools/QA/xrunner/elm:/net/sim.hitc.com/data/tools/QA/lrunner/bin:/net/sim.hitc.com/data/tools/QA/lrunner/samples/lrbin:/usr/atria/bin:/ecs/triggers:/ecs/cm/triggers:::/tools/bin:/usr/local/xvnews
PRINTER=watson
PWD=/home/pchang
SHELL=/bin/csh
SWINHOME=/opt/SoftWindows
TERM=xterm
TEST_BASE_PATH=/lr1_IT
TZ=US/Eastern

UIDPATH=%U:/opt/SUNWmotif/lib/uid/%U
USER=pchang
XFILESEARCHPATH=/usr/openwin/lib/app-defaults/%N:/opt/SUNWmotif/lib/%T/%N%S
XMBINDDIR=/opt/SUNWmotif/etc/key_bindings
platform=SunOS
selection=1
testid=TC1.18

Script started on Mon Nov 06 09:20:23 1995

Mercury environment set

mss2sunedf{pchang}1: cd /Ir1_IT/CSS/bin? /sun5

/Ir1_IT/CSS/bin/sun5

mss2sunedf{pchang}2: Gateway 7777 &

[1] 25452

mss2sunedf{pchang}3: Warning: Could not open message catalog "oodce.cat"

mss2sunedf{pchang}3: ps -ef|grep Gateway

kmiller 24497 24484 30 07:13:33 pts/0 0:00 /Ir1_IT/CSS/bin/sun5/Gateway 8888

pchang 25452 25443 29 09:20:49 pts/8 0:00 Gateway 7777

pchang 25454 25443 3 09:21:05 pts/8 0:00 grep Gateway

mss2sunedf{pchang}4: socketClient

```
===== =====  
===== SOCKET CLIENT =====  
===== =====
```

Enter gateway server name: mss2sunedf.gsfc.nasa.gov

Enter port number: 7777

```
===== =====  
===== SOCKET CLIENT =====  
===== =====
```

Selection Menu

1. Send Authentication Request
2. Read Authentication Response
3. Send DAN Message
4. Read DAA Message

5. Read DDN Message

6. Send DDA Message

7. Send DR Message

8. Read DRA Message

9. Read DAN Message

10. Send DDN Message

11. Exit

Please enter your selection: 1

==> Sending Authentication Request...

Enter user name [DCE Principal Name]: kmiller

Enter password [DCE Password]: kmiller

Authn Request msgType: 15

Authn Request msgLen: 52

===== =====
===== SOCKET CLIENT =====

===== =====

Selection Menu

1. Send Authentication Request

2. Read Authentication Response

3. Send DAN Message

4. Read DAA Message

5. Read DDN Message

6. Send DDA Message

7. Send DR Message

8. Read DRA Message

9. Read DAN Message

10. Send DDN Message

11. Exit

Please enter your selection: myUserName: kmiller

myPassword: kmiller

2

==> Read Authentication Response...

msgType: 16 msgLength: 37

===== SOCKET CLIENT =====

Selection Menu

1. Send Authentication Request
2. Read Authentication Response

3. Send DAN Message
4. Read DAA Message
5. Read DDN Message
6. Send DDA Message

7. Send DR Message
8. Read DRA Message
9. Read DAN Message
10. Send DDN Message
11. Exit

Please enter your selection: 11

==> Exiting...

```
mss2sunedf{pchang}5: ps -ef|grep Gateway
kmiller 24497 24484 30 07:13:33 pts/0 0:00 /Ir1_IT/CSS/bin/sun5/Gateway 8888
pchang 25452 25443 30 09:20:49 pts/8 0:00 Gateway 7777
pchang 25456 25452 80 09:22:04 pts/8 0:13 Gateway 7777
pchang 25460 25443 4 09:22:54 pts/8 0:00 grep Gateway
mss2sunedf{pchang}6: ls -l
total 4874
-r--r--r-- 1 kmiller Ir1_IT 378 Nov 3 12:02 CsGatewayEnviron
-rwxrwxr-x 1 kmiller Ir1_IT 2234428 Nov 3 12:02 Gateway
-rw-rw---- 1 pchang Ir1_IT 0 Nov 6 09:07 Gateway.log
-rw-rw-r-- 1 pchang Ir1_IT 37 Nov 6 09:22 OUT16
```

```
-r--r--r-- 1 kmiller Ir1_IT 2964 Nov 3 12:01 ftp.cnfg  
-rwxrwxrwx 1 pchang Ir1_IT 233364 Nov 6 09:08 socketClient  
mss2sunedf{pchang}7: prtm OUT16  
prtm: Command not found  
mss2sunedf{pchang}8: ls -l  
total 4984  
-r--r--r-- 1 kmiller Ir1_IT 378 Nov 3 12:02 CsGatewayEnviron  
-rwxrwxr-x 1 kmiller Ir1_IT 2234428 Nov 3 12:02 Gateway  
-rw-rw---- 1 pchang Ir1_IT 0 Nov 6 09:07 Gateway.log  
-rw-rw-r-- 1 pchang Ir1_IT 37 Nov 6 09:22 OUT16  
-r--r--r-- 1 kmiller Ir1_IT 2964 Nov 3 12:01 ftp.cnfg  
-rwxrwxrwx 1 pchang Ir1_IT 55652 Nov 6 09:37 prtm  
-rwxrwxrwx 1 pchang Ir1_IT 233364 Nov 6 09:08 socketClient  
mss2sunedf{pchang}9: prtm OUT16
```

```
// file name OUT16  
no. of bytes read 37  
input file type is a Validation (Authentication) Response //
```

568 bytes output

Dump of file OUT16:

Validation (Authentication) Response contents

```
=====
| message type | 16
+-----+
| message length | 37
+-----+
| destination | osaka.hitc.com
+-----+
| origin      | sabrina.hitc.com
+-----+
| disposition | 1 - accepted
=====
```

save display file (Y/N)?y

display is in file OUT16_prt

```
mss2sunedf{pchang}10: ls  
CsGatewayEnviron Gateway.log    OUT16_prt    prtm  
Gateway      OUT16      ftp.cnfg      socketClient  
mss2sunedf{pchang}11: mv OUT16_prt AUT_Valid  
mss2sunedf{pchang}12: socketCle ient
```

```
===== =====  
===== SOCKET CLIENT =====  
===== =====
```

```
Enter gateway server name: mss2sunedf.gsfc.nasa.gov  
Enter port number: 7777
```

```
===== =====  
===== SOCKET CLIENT =====  
===== =====
```

Selection Menu

1. Send Authentication Request
2. Read Authentication Response

3. Send DAN Message

4. Read DAA Message

5. Read DDN Message

6. Send DDA Message

7. Send DR Message

8. Read DRA Message

9. Read DAN Message

10. Send DDN Message

11. Exit

Please enter your selection: 1

==> Sending Authentication Request...

Enter user name [DCE Principal Name]: kmiller

Enter password [DCE Password]: jbrewster

Authn Request msgType: 15

Authn Request msgLen: 54

```
===== =====  
===== SOCKET CLIENT =====  
===== =====
```

Selection Menu

1. Send Authentication Request

2. Read Authentication Response

3. Send DAN Message

4. Read DAA Message

5. Read DDN Message

6. Send DDA Message

7. Send DR Message

8. Read DRA Message

9. Read DAN Message

10. Send DDN Message

11. Exit

Please enter your selection: myUserName: kmiller

myPassword: jbrewster

2

==> Read Authentication Response...

msgType: 16 msgLength: 37

===== SOCKET CLIENT =====

Selection Menu

1. Send Authentication Request
2. Read Authentication Response

3. Send DAN Message

4. Read DAA Message

5. Read DDN Message

6. Send DDA Message

7. Send DR Message

8. Read DRA Message

9. Read DAN Message

10. Send DDN Message

11. Exit

Please enter your selection: 11

==> Exiting...

```
mss2sunedf{pchang}13: ls -l
```

```
total 4988
```

```
-rwxrwxr-- 1 pchang Ir1_IT 668 Nov 6 09:38 AUT_Valid
```

```
-r--r--r-- 1 kmiller Ir1_IT 378 Nov 3 12:02 CsGatewayEnviron
```

```
-rwxrwxr-x 1 kmiller Ir1_IT 2234428 Nov 3 12:02 Gateway
```

```
-rw-rw---- 1 pchang Ir1_IT    142 Nov 6 09:40 Gateway.log
-rw-rw-r-- 1 pchang Ir1_IT     37 Nov 6 09:41 OUT16
-r--r--r-- 1 kmiller Ir1_IT   2964 Nov 3 12:01 ftp.cnfg
-rwxrwxrwx 1 pchang Ir1_IT   55652 Nov 6 09:37 prtm
-rwxrwxrwx 1 pchang Ir1_IT  233364 Nov 6 09:08 socketClient
mss2sunedf{pchang}14: prtm OUT16
```

// file name OUT16

no. of bytes read 37

input file type is a Validation (Authentication) Response //

568 bytes output

Dump of file OUT16:

Validation (Authentication) Response contents

```
=====
| message type | 16
-----+-----
```

```
| message length | 37  
|-----+-----  
| destination | osaka.hitc.com  
|-----+-----  
| origin      | sabrina.hitc.com  
|-----+-----  
| disposition | 2 - rejected  
=====
```

save display file (Y/N)?y

display is in file OUT16_prt

```
mss2sunedf{pchang}15: nvb mv OUT16_prt AUT_invalid  
mss2sunedf{pchang}16: ps -ef|grep Gateway  
pchang 25581 25452 80 09:39:59 pts/8 0:23 Gateway 7777  
kmiller 24497 24484 30 07:13:33 pts/0 0:00 /Ir1_IT/CSS/bin/sun5/Gateway 8888  
pchang 25452 25443 31 09:20:49 pts/8 0:00 Gateway 7777  
pchang 25456 25452 80 09:22:04 pts/8 10:56 Gateway 7777  
mss2sunedf{pchang}17: kill -9 25581 25452 25443 25456  
script done on Mon Nov 06 09:43:13 1995
```

3.1.18.4 Recommendations and Conclusions

Test need to be run on the Gateway Server with proper port number.

Test driver "socketClient" and tool "prtm" need to be installed before the test runs